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SURFACE WATER SECTION
AT THE
UNIVERSITY OF ILLINOIS

Illinois Department of
Energy and Natural Resources

SWS Contract Report 358

STREAMFLOW ASSESSMENT MODEL FOR THE SANGAMON RIVER BASIN IN ILLINOIS

USER'S MANUAL

by

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CONTENTS

I. INTRODUCTION AND DESCRIPTION OF COMPUTER REQUIREMENTS

The Illinois Streamflow Assessment Model is a basinwide streamflow information and management tool designed to provide its users with "best estimated" values for selected flow parameters for any site within the entire basin. The objectives of the development of this model were 1) to develop an accepted standard of information describing long-term flow conditions and water availability in the basin of interest and 2) to develop a water accounting system for estimating the effects on water availability of changes in water withdrawals and returns to the stream system. With this second ability the model has the capacity to be not only a source of streamflow information, but also a planning tool for evaluating the effects of potential water resource developments.

The Streamflow Assessment Model (STREAM) is written to be capable of running on an IBM-PC[1] or compatible personal computer having a minimum of 128 K (kilobytes) random access memory (RAM) and either two 360K diskette drives or a fixed disk. If using a machine with this minimum memory configuration and DOS 2.0, the model's program will occupy just over 24K RAM and the maximum required memory for the program's storage modules is approximately 90K. An Epson, IBM, or Epson-compatible dot-matrix graphic printer is required for graphic output. The program is geared for use with a monochrome monitor. On a color monitor the text will appear as white-on-black (a version utilizing yellow and brown colors is available).

The programming algorithms of the model presented in this paper are referenced to use with the Sangamon River basin, however the model can be

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[1]IBM-PC is a trademark of the International Business Machines Corporation

applied to any other river basin having properly processed streamflow information. This manual is the first of two reports pertaining to the Sangamon basin model and deals specifically with the application of the interactive program. Users who are interested in the hydrologic development of the estimates of streamflow magnitude and the flow equations used in this model are directed to the accompanying report: Streamflow Assessment Model for the Sangamon River Basin in Illinois, Part 2. Hydrologic Analysis.

II. STREAMFLOW INFORMATION PRODUCED BY THE MODEL

The streamflow assessment model produces information on 178 selected flow parameters, including flow versus percentage-of-duration relationships as well as both low flows and high flows for various durations and expected return intervals. Daily streamflow records are not stored in or provided by the model; it is this exclusion that allows the model to run while requiring only a relatively small amount of computer storage. The 178 flow parameters provided by the model are listed below.

Annual Flow-Duration Values (percent probability of exceedance, for example Q02 = the flow exceeded only 2% of the time)

Qmean (mean flow), Q99, Q98, Q95, Q90, Q85, Q75, Q60, Q50, QUO, Q25, Q15, Q05, Q02, Q01

Monthly Flow-Duration Values (probability of exceedance, for each month of the year)

Qmean, Q98, Q90, Q75, Q50, Q25, Q10, Q02

Low Flows (average flow rate over the given duration)

Durations: 1-day, 7-day, 15-day, 31-day, 61-day, 91-day
Return Intervals: 2 years, 10 years, 25 years, 50 years

Drought Flows (average flow rate)

Durations: 6-month, 9-mo., 12-mo., 18-mo., 30-mo., 54-mo.
Return Intervals: 10 years, 25 years, 50 years

High Flows (average flow rate)

Durations: 1-day, 7-day, 15-day, 31-day, 61-day, 91-day
Return Intervals: 2 years, 10 years, 25 years, 50 years

III. HYDROLOGIC CONCEPTS

The characteristics of streamflow in any moderately developed watershed will, over time, vary from earlier conditions due to the cumulative effect of man's activities in the region. The degree to which the flow regime has been changed may vary greatly from one stream to another. For example, some basins with relatively minor changes in land use practice may have only subtle (and generally inestimable) variation in its streamflow characteristics. Generally, the greatest amount of streamflow modification results from more overt water use and water resource projects including: 1) reservoirs; 2) withdrawals from the stream for either irrigation or for industrial and municipal water needs; and 3) effluent discharges, primarily from the municipal and industrial uses of water. These developments, whose effect on the streamflow may be estimable, are termed "flow modifiers."

By isolating the effects of the flow modifiers and removing the effects from the available streamflow records, estimates can be made describing what the streamflow would be under unmodified conditions. The computation of the unmodified flow, which is termed "virgin flow", can be represented by the equation:

$$Qv = Qp - \Sigma \Delta Qmod(i) \qquad (1)$$

in which: Qv = virgin flow estimate
Qp = measured or "present" flow
ΔQmod(i) = the change in flow due to the presence of flow modifier "i"

Because each of the flow modifiers is unique in both its effect on the flow magnitude and its location in the basin, each ΔQ_{mod} must be calculated independently and stored within the model.

The isolation of the effects of each of the flow modifiers and the resulting estimation of the virgin flow produces the following model advantages.

1) The virgin flows, produced by eliminating the effects of the flow modifiers, have much greater regional homogeneity than do the present flow conditions. Thus, the accuracy of the regional transferability of the available streamflow records to ungaged sites in the watershed may be vastly improved.

2) Variations in the present streamflow at ungaged sites from the virgin flow conditions are determined by identifying the flow modifiers affecting the site and calculating their effects.

3) Because the flow components of "virgin flow" and each of the "flow modifiers" can be efficiently evaluated independent of each other, the information needed to estimate streamflow throughout the basin can be reduced to a small number of components.

IV. COMPONENTS OF STREAMFLOW ASSESSMENT

IV.A. Virgin Flow Equations

These are a set of regional regression equations developed between the parameters of virgin flow as estimated from the streamflow records and selected watershed characteristics, for example:

$$Q_v = f(A,S) \qquad (2)$$

In equation 2, the virgin flow parameter, Q_v, is dependent on the watershed characteristics of drainage area, A, and the main-channel slope, S. These watershed characteristics are computed through information given in the stream network index, which is described in Section V.

IV.B. Control Point Information for Virgin Flows

The virgin flow equations described above provide the best available regionalized estimates of virgin flow in the basin. However, at approximately 30 locations in the basin, individual estimates of the 178 flow parameters have been developed which are deemed more accurate than those estimates produced by the equations. These locations, called control points, include gaging stations having daily streamflows, the confluences of major streams in the basin, and a few other selected sites. An entire set of the virgin flow parameters is stored for each control point. Values of virgin flow given at a control point will supersede the values given by the equations, and the effect of the control point information will also extend both upstream and downstream away from the control point for specified distances.

IV.C. Flow Modifiers

At the location of each flow modifier in the basin, values of the effects of the flow modifier on the flow magnitude ($\Delta Qmod$ in equation 1) are given for each of the 178 flow parameters presented earlier. The effects of these flow modifiers are then extended downstream, in most cases without any change in the value of AQmod. The exceptions, i.e. the situations when the AQmod values are changed, occur when: 1) the flow reaches a reservoir, in which case an algorithm is employed which simulates the effect of reservoir routing on the flow modification, and 2) when the original virgin flow of the parameter, Qv, is equal to zero. For this second type of situation, the stream is considered to be a "losing stream," i.e. the stream loses water through infiltration to ground-water storage. In many "losing stream" situations the stream eventually returns to its original dry condition, despite the presence of a positive AQmod value upstream.

IV.D. Control Point Information for Present Flow

Control point information is used to improve the estimates of the present flow conditions in the same manner that was described above with respect to virgin flow. Control information is especially useful in describing present flow at locations such as: 1) reservoirs, which create a discontinuity in the present conditions and tend to erase the cumulative effect of the upstream flow modifiers; and 2) downstream from a major confluence where the effect on the streamflow parameters of the flow modifiers from both tributaries may not be strictly additive.

V. STREAM NETWORK

V.A. Indexing of the Stream Network

Each location of interest must be referenced by supplying an index which consists of a code which identifies the stream involved and a river mile which locates the point of interest along that stream. The stream code may be found using the stream network listing or map of the Sangamon basin given in Appendix A. Selected river miles along these streams are given in Appendix B. If the point of interest is not one of the locations given in the river mile listing, then the user must estimate the appropriate river mile based on the nearest upstream and downstream entries in the listing. The river mile at the downstream end of each stream code is always 0.0.

Example: Assume that the following location is identified as a potential site for an industrial discharger: the intersection of Illinois State Routes 97 and 125, seven miles west of Springfield (NW 1/4, Section 16, T.16N., R.6W.). The stream flowing through this quarter-section is identified as Prairie Creek.

An examination of Appendix A indicates that there exist four streams in the Sangamon River basin called "Prairie Creek." Thus, before a stream code can be found, the user must identify exactly which of the four "Prairie Creeks" is the one of interest. Identification can be made by knowing the streams into which this Prairie

Creek flows. Once the receiving stream is identified as Richland Creek (which then flows into the Sangamon River), the stream code is shown to be "IGG."

The river mile listing for Prairie Creek (page 57 of Appendix B) can be used to approximate the river mile for the point of interest. This listing shows Illinois Route 97 to cross Prairie Creek at river mile 4.8. Examination of a topographic map can be used to then specify the site as river mile 5.0. Therefore, the index "IGG/5.0" identifies the location of interest.

V.B. Watershed Characteristics Associated with the Stream Network

Watershed characteristics, such as the drainage area and stream slope, have been measured for approximately 700 locations throughout the Sangamon River basin. This information has been entered into a file which describes the stream network. These measurements allow for an accurate reference between the stream code/river mile identification and the factors which are used to compute the virgin flow conditions at the location of interest.

VI. REPRESENTATION OF HYPOTHETICAL MODIFIERS

Hypothetical withdrawals and discharges are represented by the construction of an annual flow-duration curve of the flow modification. The effect of the withdrawal or discharge on any of the remaining flow parameters is estimated by a transformation from the annual flow-duration curve. For example, as shown in figure 1, the effect of a discharge on the 7-day, 10-year low flow is estimated as that discharge that occurs with a frequency of exceedance of 99.1%.

To represent a hypothetical modification the user must supply the model with either an entire flow-duration curve of the withdrawal or discharge, or a set of four values from which a flow-duration curve may be approximated. The values needed to approximate the flow-duration curve are 1) the average magnitude of the withdrawal or discharge, 2) the expected minimum average

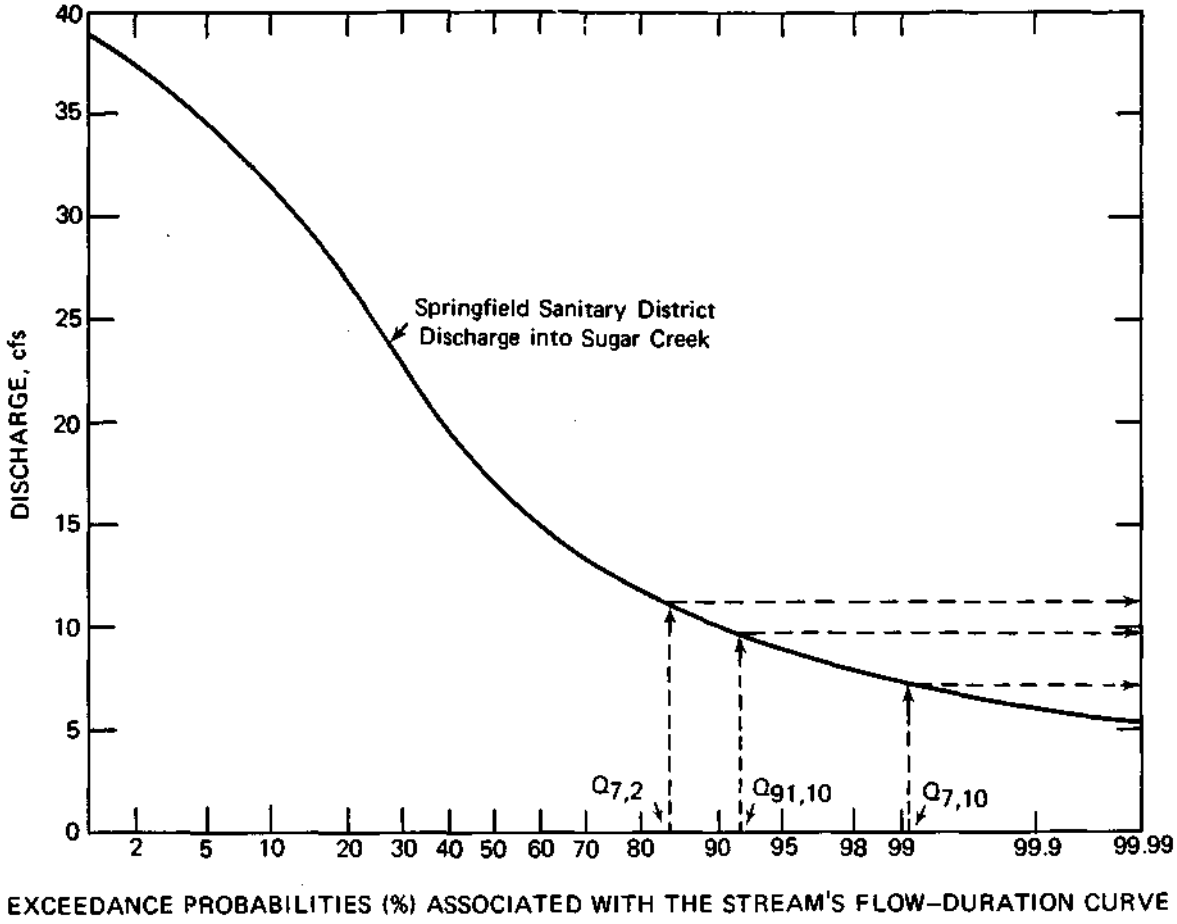


Figure 1. Transformation from the Modification's Flow-Duration Curve to Other Streamflow Parameters

monthly magnitude, 3) the expected maximum average monthly magnitude, and 4) the withdrawal or discharge coinciding with a day of extremely low stream-flow (such as the 1-day, 50-year low flow). If the minimum average monthly value is zero (i.e. significant periods exist for which no withdrawal or discharge is expected) then the interactive program will request the percent of time the modification is expected to be non-zero.

Figure 2 gives two examples of how the flow-duration curve might be approximated from the four values described above. Case 1 illustrates a fairly standard flow-duration curve for a municipal treatment plan discharge. The percent of exceedance at which the average flow of the discharge occurs, DAVG, is placed so that the computed area underneath the flow-duration curve is indeed the average discharge. In this case, the average discharge of 1.3 cfs is associated with a duration (DAVG) of 30%.

The second case in figure 2 is an example of a withdrawal which occurs during the dry season of the year. The withdrawal only occurs for 80% of the time, thus the computed average monthly minimum is 0.0. Again the average withdrawal rate is situated (DAVG=46.7%) so that the area under the flow-duration curve is equal to the average rate for the period of pumping. Further examples of the representation of hypothetical modifiers (for example, a case with a constant withdrawal rate) are given in Section VIII.

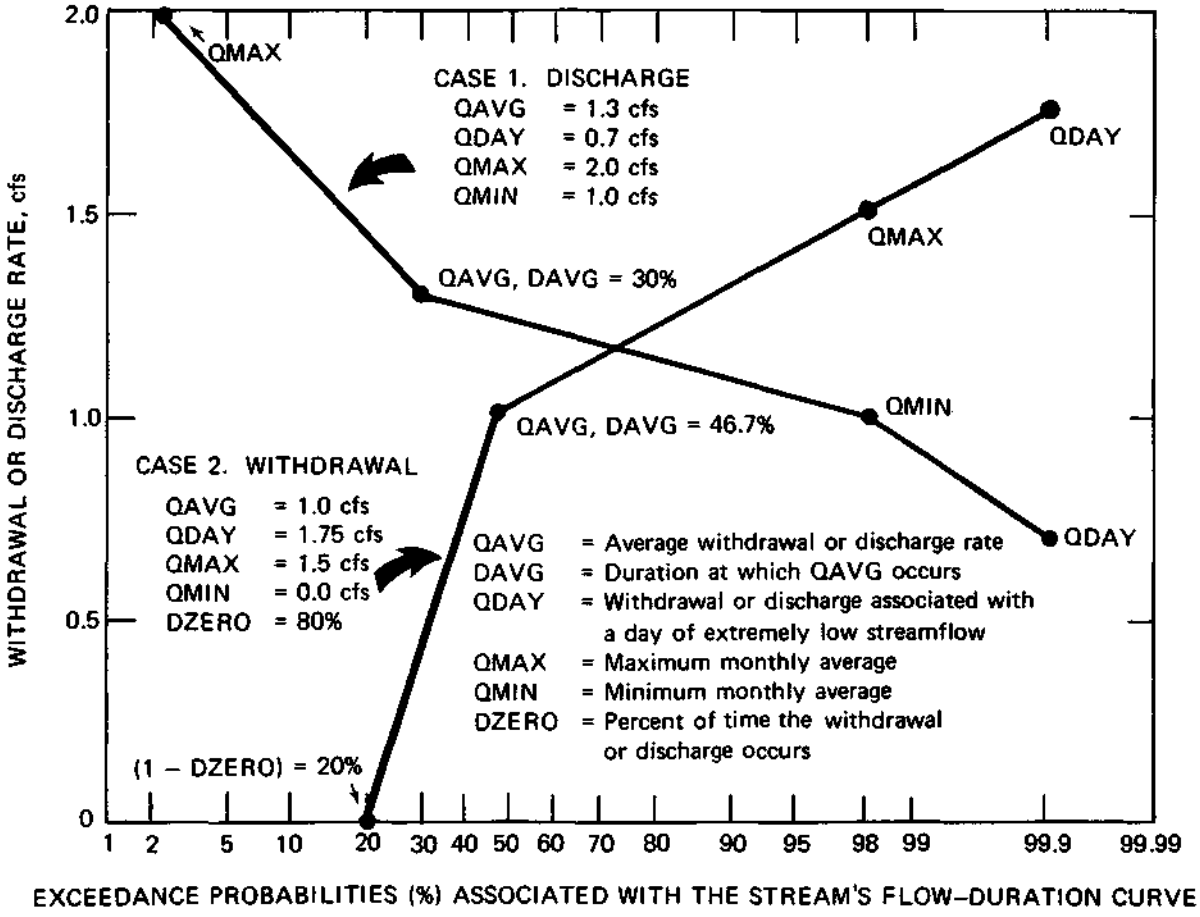
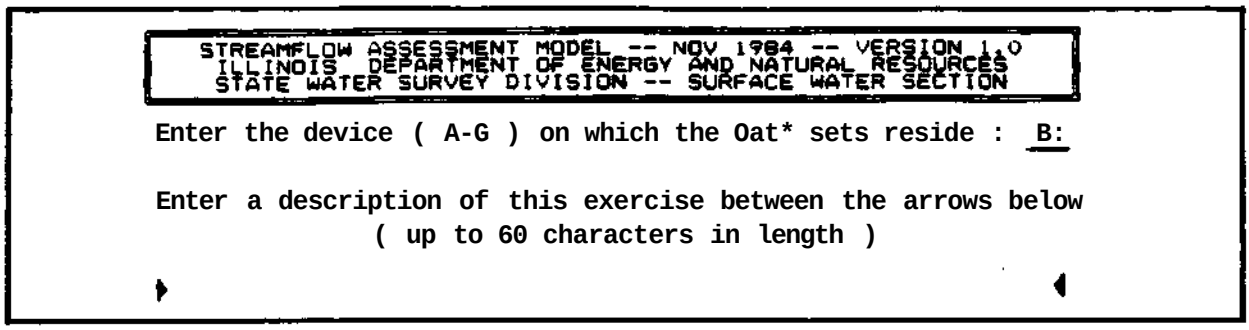


Figure 2. Use of Minimal Flow Data in Describing a Modification's Flow-Duration Curve

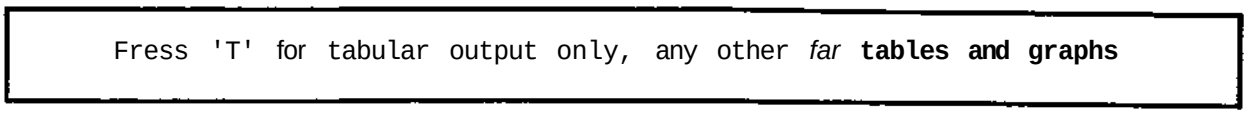
VII. RUNNING THE MODEL

This section will describe the use of the model on a 2-drive system with the Streamflow Assessment Program on default drive "A" and the data set on drive "B". Each screen displayed by the program and the appropriate user responses will be described. Begin by typing STREAM and striking the RETURN (or ENTER) key.

VII.A. Initialization of the Model



Screen Display 1



Screen Display 2

"Enter the device (A-G) on which the data sets reside:"
The user should identify the disk-drive which contains the data set. For example, when using a two-drive system, the data set will normally be on drive B.

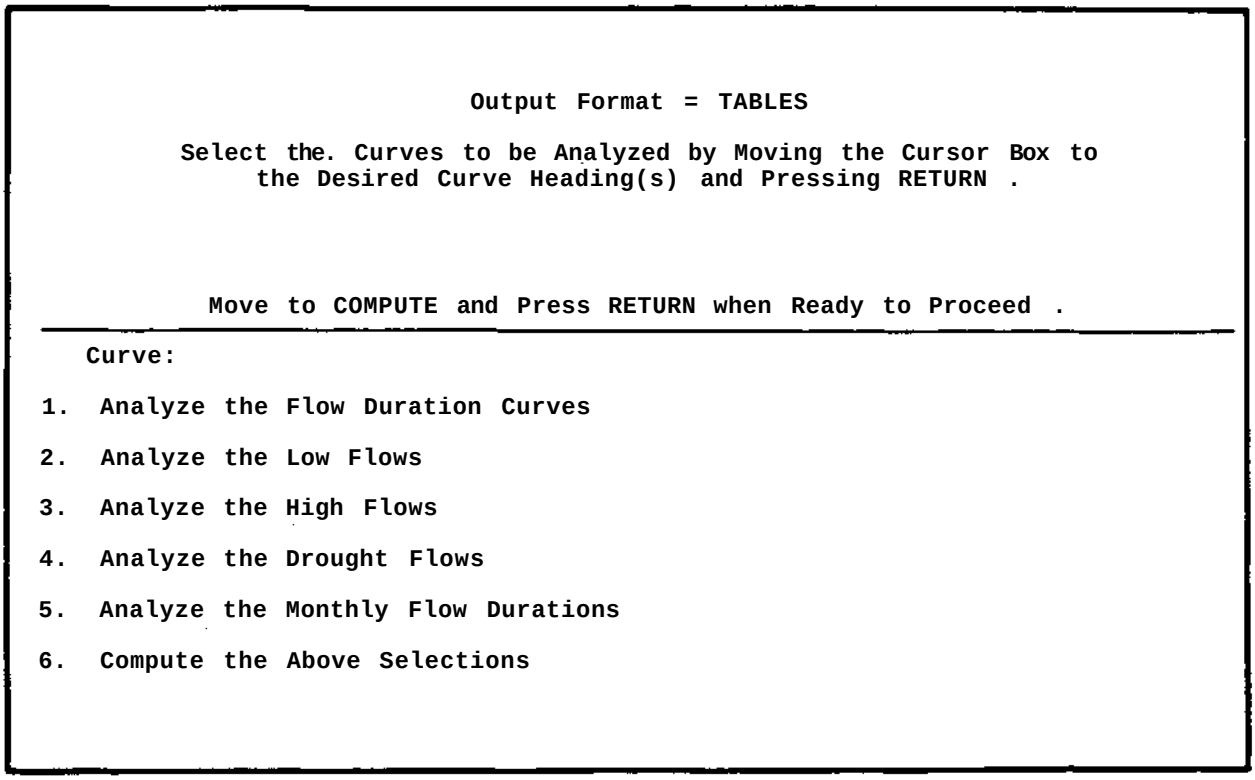
"Enter a description of this exercise between the arrows below"
The user should enter a sixty-character description to be printed on all output which identifies the exercise being undertaken. The sixty-character string begins and ends directly below the arrows given on the screen. If a title is not desired, simply strike the RETURN key.

"Press 'T' for tabular output only; any other for tables and graphs"
The user determines whether the output will contain just tables or both tables and graphs. The printing of graphical output requires considerable time; therefore, unless the user specifically desires, graphical output use of the 'T' option is suggested.

VII.B. Selection of Analyses

Following the selection of output type, the user will be presented with one of the following two screens (either Screen Display 3 or Display 4). In both cases one or more types of analyses may be selected by moving the cursor box up or down to the desired type of analysis using the cursor control keys and then striking RETURN. After selecting a type of analysis, the user may change his mind and remove that selection by placing the cursor on that analysis a second time and striking RETURN. When all the desired analyses have been indicated, move the cursor to option 6, "Compute the Above Selections" and strike RETURN again.

VII.B.1. Selection of Analyses - Tabular Output



Screen Display 3

The program identifies the five major categories of flow information available in options 1-5 shown in Screen Display 3. Below is listed the streamflow information which will be output by choosing each of these five options. In all cases, both virgin and present flow conditions for each of the parameters described are output. In addition, altered flow conditions are output if the flow modification option (described in Section VII.D.) is used.

1) "Analyze the Flow Duration Curves" - Option 1 provides the annual mean flow and flow values for 15 exceedance probabilities (ranging from 1% to 99%) associated with the annual flow duration curve.

2) "Analyze the Low Flows" - Option 2 provides 2-, 10-, 25-, and 50-year low flows for durations of 1, 7, 15, 31, 61, and 91 days.

3) "Analyze the High Flows" - Option 3 provides 2-, 10-, 25-, and 50-year high flows for durations of 1, 7, 15, 31, 61, and 91 days. Note: The 1 day duration values represent the average flow over an entire day and do not represent peak discharges.

4) "Analyze the Drought Flows" - Option 4 provides 10-, 25-, and 50-year drought flows (low flows) for durations of 6, 9, 12, 18, 30, and 54 months.

5) "Analyze the Monthly Flow Durations" - Option 5 provides the monthly mean flow and flow values for 7 exceedance probabilities (ranging from 2% to 98%) associated with the flow duration curves for each month of the year.

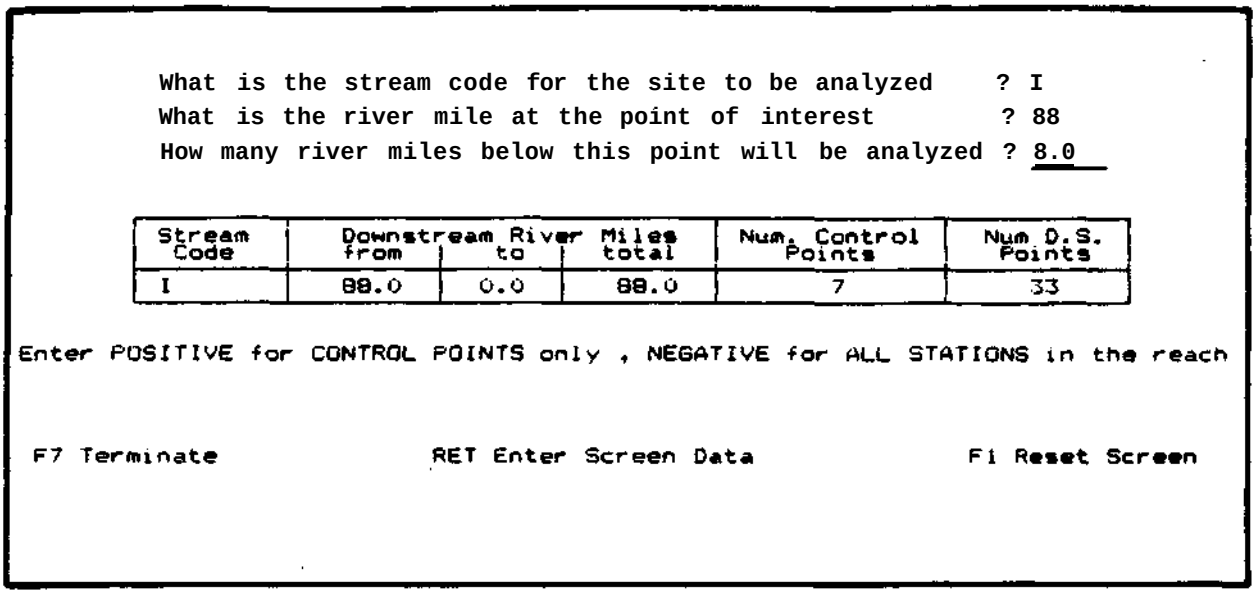
VII.B.2. Selection of Analyses - Graphical Output

```
                    Output Format = GRAPHS
     Select the Curves to be Analyzed by Moving the Cursor Box to
          the Desired Curve Heading(s) and Pressing RETURN .
      Select the Durations to be Plotted by Moving the Cursor Box
        Laterally to the Desired Durations and Pressing RETURN .
        Move to COMPUTE and Press RETURN when Ready to Proceed .
 Curve:                                      Duration / Month:
 1.  Analyze the Flow Duration Curves
 2.  Analyze the Low Flows                   O1 07 15 31 61 91
 3.  Analyze the High Flows                  01 07 15 31 61 91
 4.  Analyze the Drought Flows               06 09 12 18 30 54
 5.  Analyze the Mo Flow Durations    [All]  J F M A M J J A S O N D   Exit
 6.  Compute the Above Selections
```

Screen Display 4

When graphical output for options 2 through 5 (described above) is requested, the user will be asked to specify subcategories within these options to be printed. This information is requested in order to limit the amount of graphical output to be printed, although the option exists to print all available graphs. Once the major option is selected, the user should move the cursor right or left and strike the RETURN key to choose the desired subcategories. A second strike of the RETURN key will delete a previously selected subcategory. When all the desired subcategories have been selected, move the cursor to "Exit" and strike RETURN.

VII.C. Points of Interest on the Stream



Screen Display 5

"Stream code for the site to be analyzed"

The stream of interest must be identified by its appropriate code. A list of all the acceptable codes is given in Appendix A. Note: This item must be entered in CAPITAL letters.

"Approximate river mile at the point of interest"

This number locates the point of interest on the stream. A description of the river miles is given in Section V., and selected values are given in Appendix B.

At this point, the program provides a list which traces the downstream flow pattern leading from the point of interest to the confluence of the Sangamon River with the Illinois River (stream code "I", river mile "0.0"). Along with this listing is a description of the potential number of downstream locations for which the user may request flow information. The location options are 1) the point of interest, 2) control points only, or 3) all downstream points. For the second and third options, the user defines a stream reach extending from the current point of interest downstream a specified number of miles, for which streamflow information will be printed.

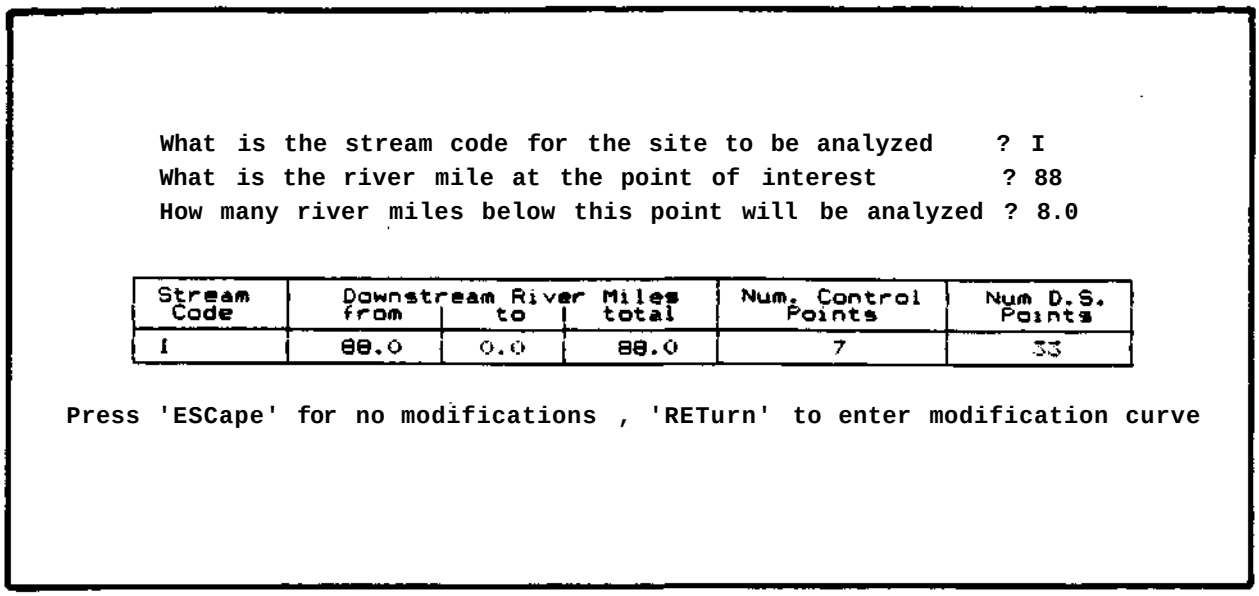
"How many river miles below this point will be analyzed."

1) The Point of Interest - Information for only the original location will be printed if the user enters either zero (0.0) or RETURN.

2) Control Points Only - If the user enters a POSITIVE number, then the program will print output for both the point of interest and all control points within the specified number of miles downstream. The location of the control points may be found in advance in Appendix B.

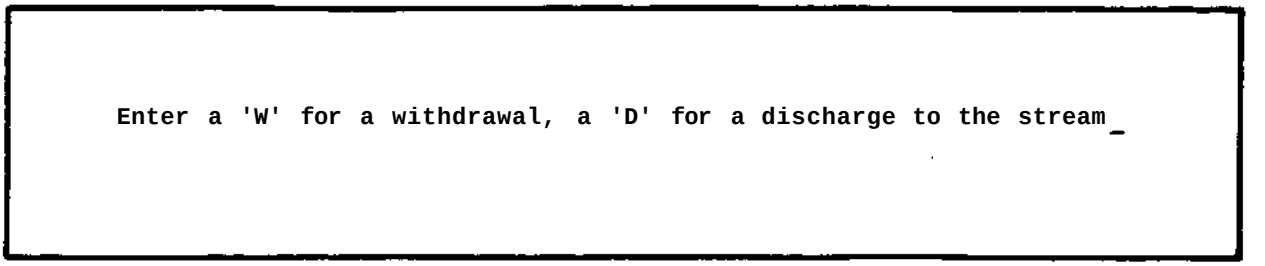
3) All Downstream Points - If the user enters a NEGATIVE number, then the program will print output for both the point of interest and all locations in the stream network file within the reach described by the ABSOLUTE VALUE of the number given. The location of the points of information may be found in Appendix B. NOTE: When choosing this option the user should be aware of the potential volume of output being requested.

VII.D. Flow Modification Options

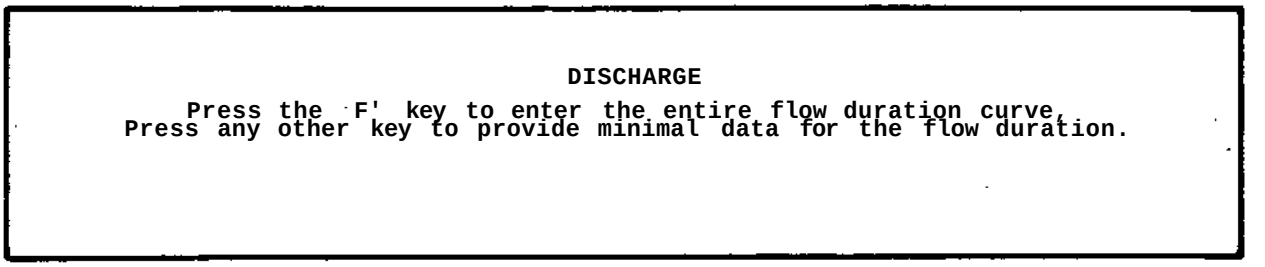


Screen Display 6

The user may introduce into the streamflow computation an additional flow modifier to be located at the previously specified point of interest; this new modifier may be either a withdrawal from the stream (W) or a discharge to the stream (D). The effects of this new modifier on the streamflow will, in the model output, be presented under the heading "Altered Flow." If the user does not wish to enter this additional flow modifier then he should strike the escape key ("ESC") upon the display of the last line on Screen 6.



Screen Display 7



Screen Display 8

After response to Screen 7, the user should indicate which method he will use to represent the flow information associated with the new modifier (see Screen Display 8). If the user has enough information to provide a complete flow duration curve of the withdrawal or discharge, the appropriate screen will be brought up by striking the letter "F". If the flow duration curve for the withdrawal or discharge is not known, the user should strike any other key. The user will then be prompted for values which will be used to estimate a flow-duration curve. The procedure for representing flow modifiers is described in Section VI.

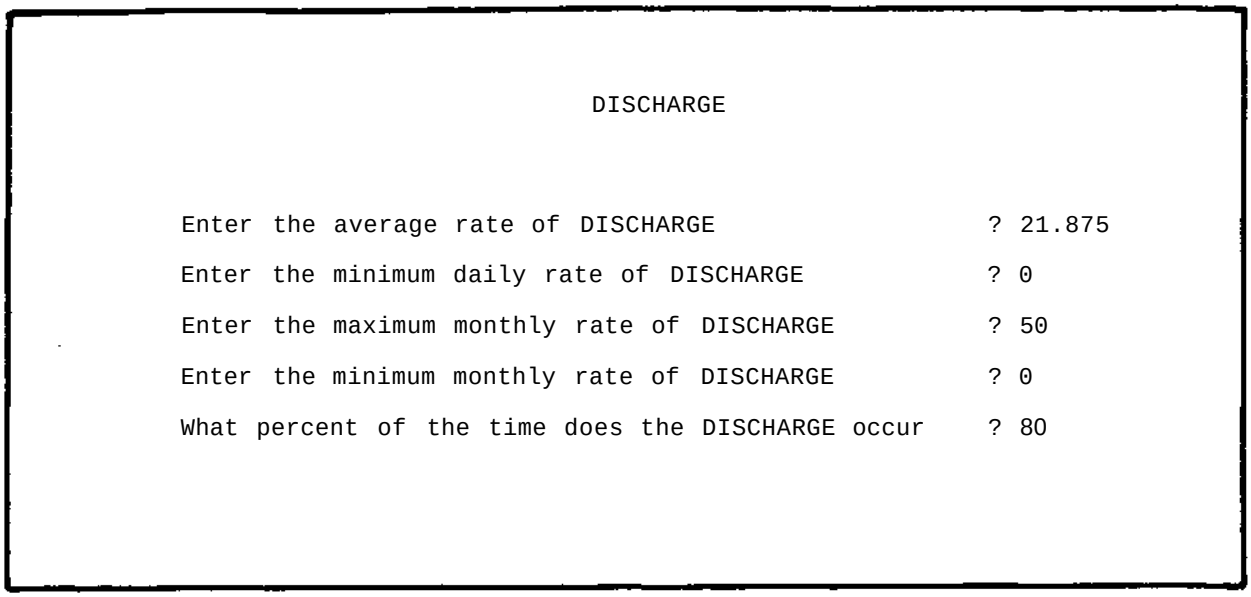
VII.D.1. Flow Modification - Flow Duration Curve Data

```
                              DISCHARGE

          Flaw is to be based on the indicated EXCEEDENCE probability
Probability      Flow      Probability      Flow      Probability      Flow
   99  %     ? 1              75  %     ? 6              15  %     ? 11
   98  %     ? 2              60  %     ? 7              10  %     ? 12
   95  %     ? 3              50  %     ? 8               5  %     ? 13
   90  %     ? 4              40  %     ? 9               2  %     ? 14
   35  %     ? 5              25  %     ? 10              1  %     ? 15

                        Enter the MEAN flow ? 8.3
```

Screen Display 9

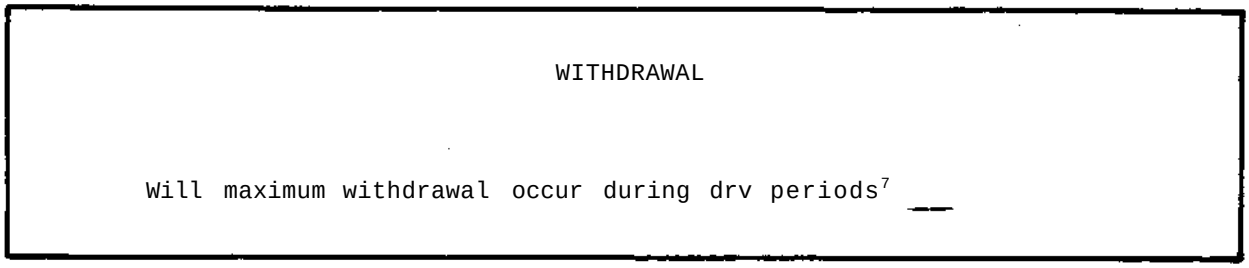
The user will be prompted to provide 16 values of the modification's flow duration relationship. Each value should be followed by the RETURN key. Note that the values identified with a given exceedance level are meant to coincide with the same exceedance level in the flow duration curve of streamflow. Therefore, if the proposed modification is a withdrawal whose magnitude is greatest during periods of low streamflow, the greatest values of withdrawal input on Screen 9 should correspond to the low streamflow values, e.g. to the 99% exceedance level.

VII.D.2. Flow Modification - Approximate Flow Duration Data



Screen Display 10

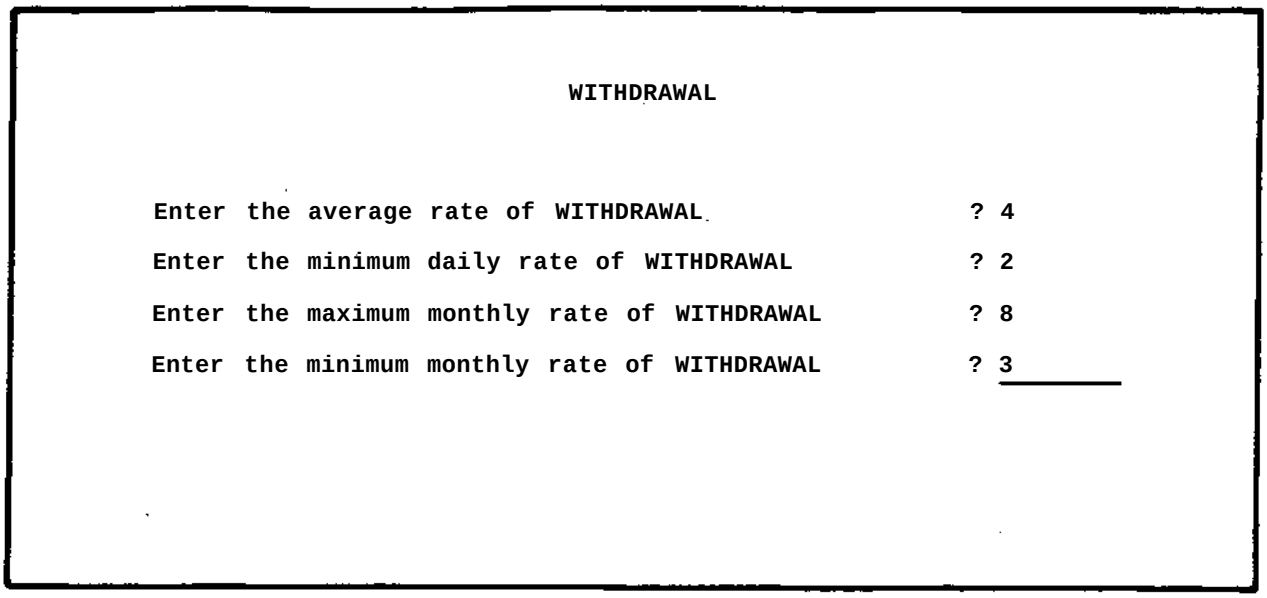
If the modification of interest is a discharge, the user will be asked to provide a) the average rate of discharge, b) the minimum daily rate of discharge, c) the maximum monthly rate, and d) the minimum monthly rate. If the minimum monthly rate is zero, the user will also be asked the percentage of time that the discharge occurs.



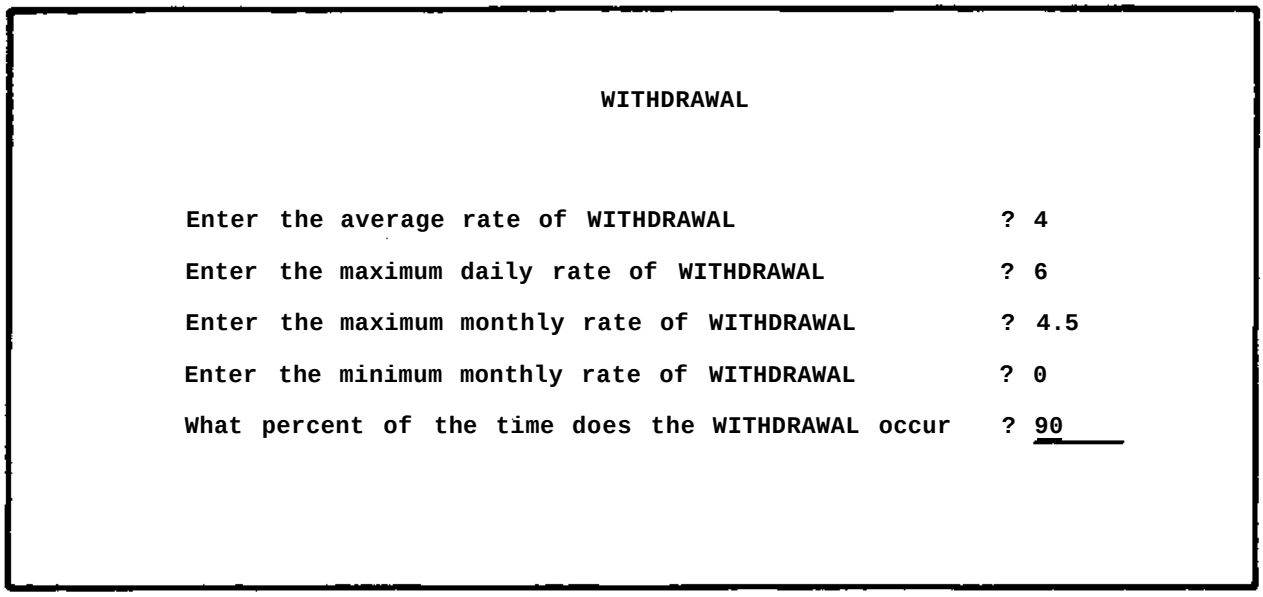
Screen Display 11

If the modification of interest is a withdrawal, the user will first be asked whether the maximum rate of withdrawal is intended to occur during wet or dry periods (i.e., high or low streamflow). If the maximum withdrawal occurs during high streamflow, then the user will be asked to provide the same information as that required for discharges (see the above paragraph as well as Screen Display 12). If the maximum withdrawal occurs during low streamflow, the user needs to provide: a) the average rate of withdrawal, b) the maximum daily rate, c) the maximum monthly rate, and d) the minimum

monthly rate. If the later item is zero, the user will again be asked to provide the percent of time for which the withdrawal is non-zero (see Screen Display 13).



Screen Display 12



Screen Display 13

VIII. EXAMPLES OF MODEL OUTPUT

The following pages illustrate the basic types of tabular and graphical output available with the Streamflow Assessment Model. Each table and graph contains at most three sets of data, including: 1) virgin streamflow conditions, 2) present streamflow conditions, and 3) altered (hypothetical) streamflow conditions. The tables and graphs will be limited to two sets of data if the flow modification option is not used. Also, if the present flow conditions are equal to the virgin flow conditions then only one set of data, the present flow conditions, would be presented in the tables and graphs. A complete printout of all the available streamflow information generally requires sixteen pages of output when using the graphics option and four pages when using the tabular output.

Example 1. Streamflow Downstream of Lake Decatur

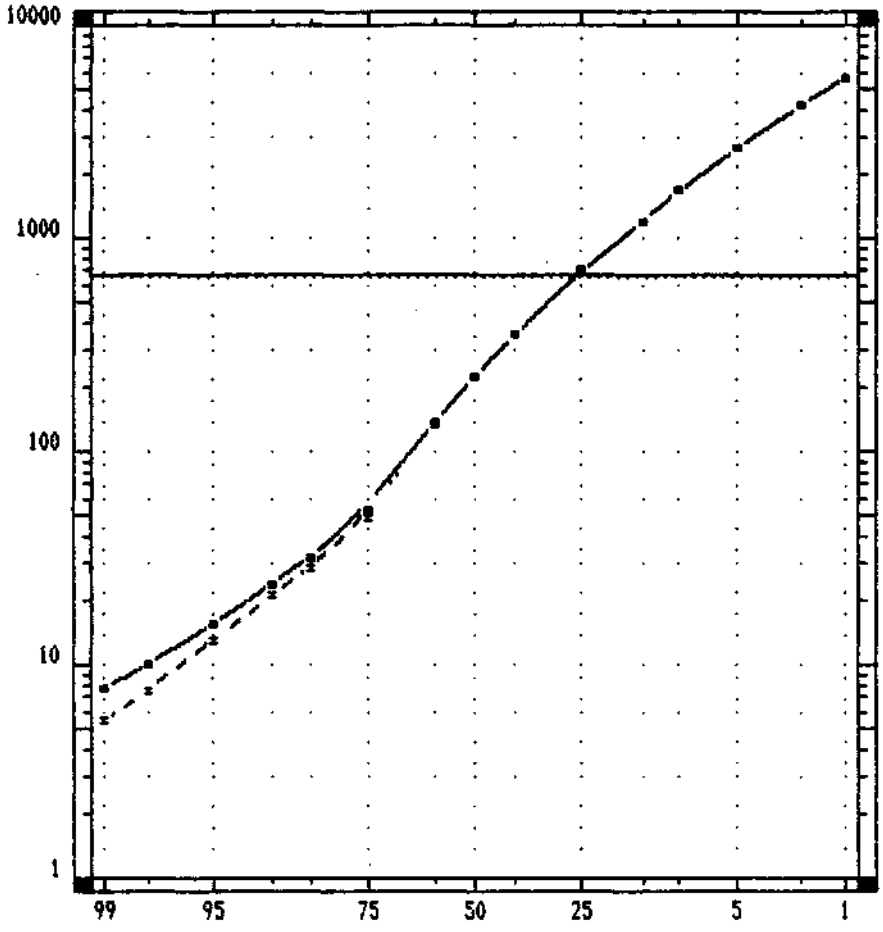
This example uses STREAM as an information source; the output includes virgin and present streamflow conditions for the Sangamon River at sites 1) upstream of the Lake Decatur dam, 2) immediately downstream of Lake Decatur, and 3) downstream of the Stevens Creek confluence at which the Decatur Sanitary District discharge flows into the Sangamon. The graphs illustrate that Lake Decatur has little effect on the high flows of the Sangamon River but greatly reduces low flows. On the other hand, the Decatur Sanitary District discharge greatly augments low flows.

Model Input:

```
Print Option:  GRAPHICAL
Selection of Analyses:
     Options #1 - Flow Duration
             #2 - Low Flows, 7 day duration
             #3 ~ High Flows, 1 day duration
Point of Interest on the Stream:
     "Stream code for the site to be analyzed":  I
     "Approximate river mile at the point of interest":  131.0
     "How many river miles below this point will be analyzed":  4.0
"Press 'ESCape' for no modifications, 'RETurn' to enter modification
  curve":  ESC
```

FLOW DURATION

Streaa - I River Nile = 131 Drainage Area = 924.74

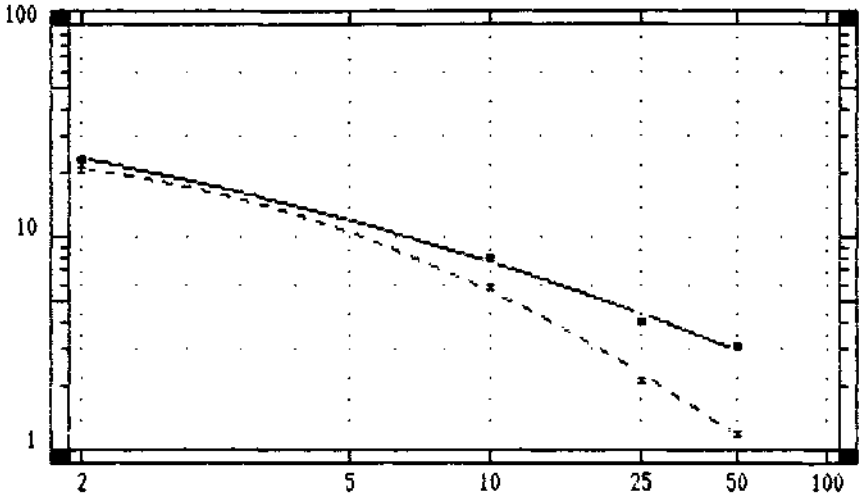


EXCEEDANCE PROBABILITY	VIRGIN FLOW	PRESENT FLOW
99	5.4	7.7
98	7.6	9.9
95	12.9	15.5
90	21.2	24.0
B5	28.4	31.5
75	49.0	52.6
60	133.0	136.9
50	221.0	225.2
40	352.0	357.4
25	704.8	711.0
15	1179.8	1186.6
10	1689.7	1696.9
5	2629.3	2635.1
2	4178.5	4184.8
1	5647.9	5654.4
Mean	655.8	660.5

LOW FLOWS

Stream = 1 River Kile = 131 Drainage Area = 924.74

Example 1. Streamflow Downstreaa of Lake Decatur



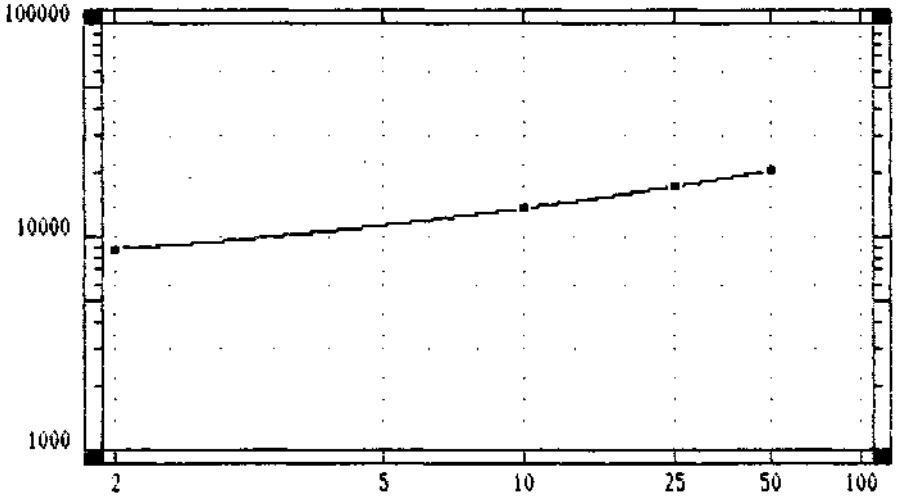
DURATION : 7 DAYS

RETURN PERIOD	VIRGIN FLOW	PRESENT FLOW
2	20.594	23.268
10	5.796	7.956
25	2.098	4.011
50	1.199	3.060

HIGH FLOWS

Streai = I River Mile = 131 Drainage Area = 924.74

Example 1. Streamflow Downstreaa of Lake Decatur

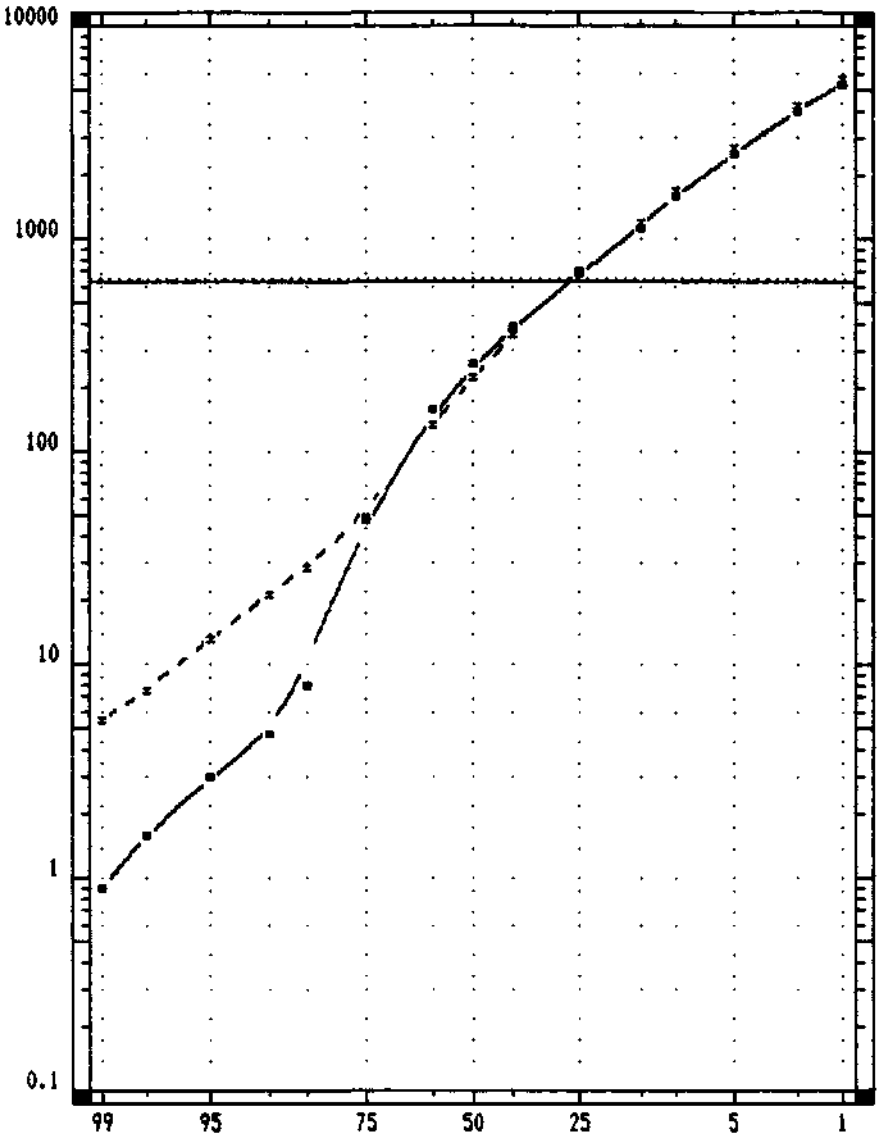


DURATION : 1 DAY

RETURN PERIOD	VIR6IN FLOW	PRESENT FLOW
2	8745	8751
10	13598	13604
25	17297	17304
50	20396	20403

FLOW DURATION

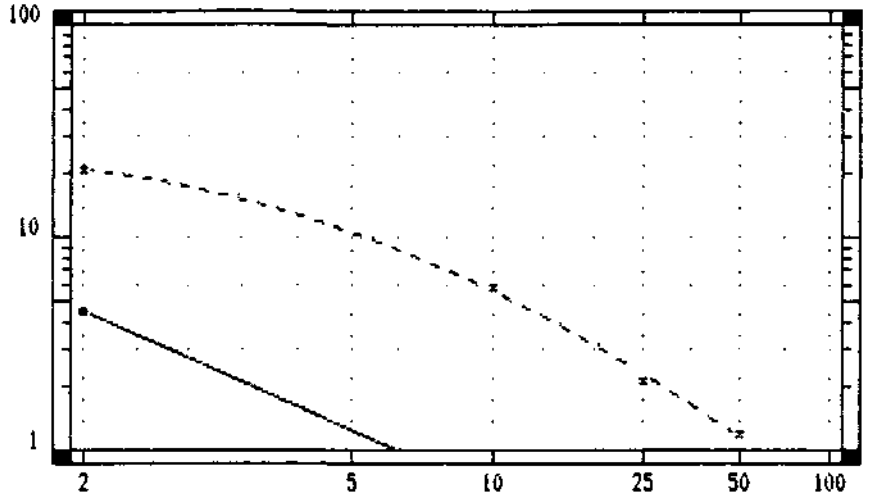
Streaa = I River Nile = 130.80 Drainage Area = 925
USGS Streaiqage # 55735 - Sangamon River at LAKE DECATUR



EXCEEDANCE PROBABILITY	VIRGIN FLOW	PRESENT FLOW
99	5.4	0.9
9B	7.6	1.6
95	12.9	3.0
90	21.2	4.8
85	28.4	8.0
75	49.0	47.0
60	133.0	157.0
50	221.0	256.0
40	352.0	384.0
25	705.0	685.0
15	1180.0	1120.0
10	1690.0	1570.0
5	2630.0	2480.0
2	4180.0	3990.0
1	5650.0	5260.0
Mean	656.0	635.0

LOW FLOWS

Stream = 1 River Mile = 130.80 Drainage Area = 925
USGS Streamgage # 55735 - Sangamon River at LAKE DECATUR
Example 1. Streamflow Downstream of Lake Decatur

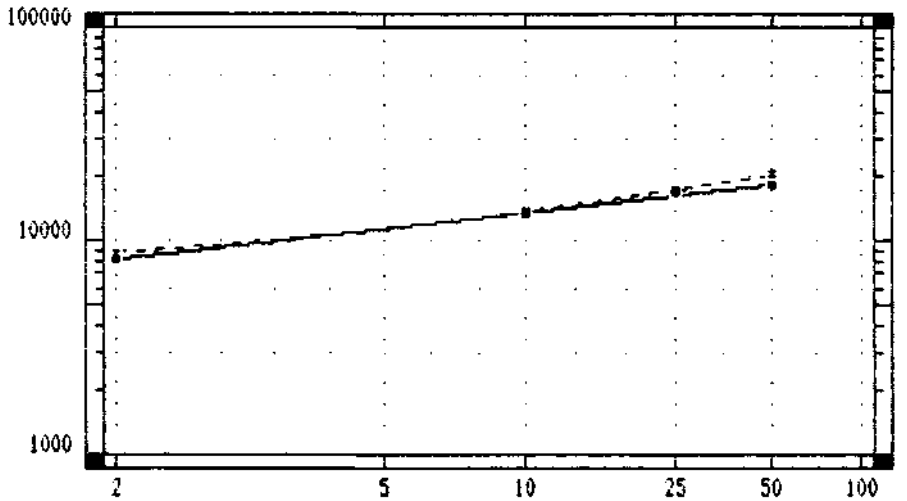


DURATION : 7 DAYS

RETURN PERIOD	VIRGIN FLOW	PRESENT FLOW
2	20.600	4.500
10	5.800	0.000
25	2.100	0.000
50	1.200	0.000

HIGH FLOWS

Stream = 1 River Mile = 130.80 Drainage Area = 925
USGS Streamgage # 55735 - Sangamon River at LAKE DECATUR
Example 1. Streamflow Downstream of Lake Decatur

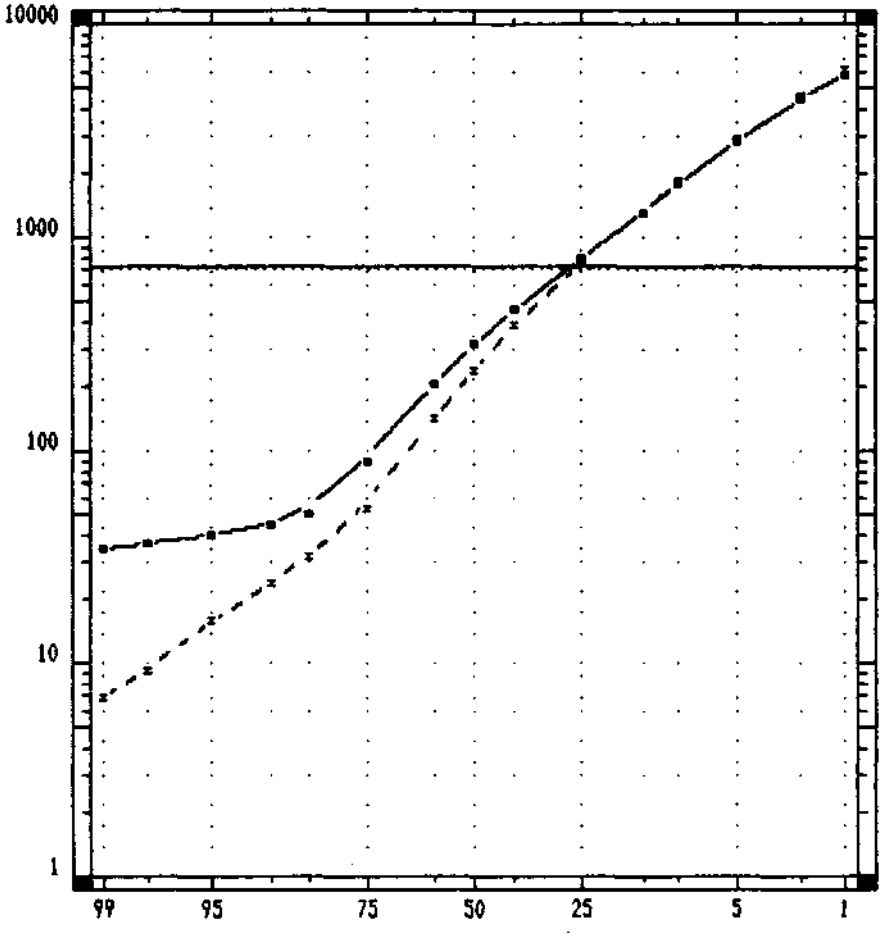


DURATION : 1 DAY

RETURN PERIOD	VIRGIN FLOW	PRESENT FLOW
2	8750	8150
10	13600	13300
25	17300	16600
50	20400	18100

FLOW DURATION

Stream =1 River Nile = 127.30 Drainage Area = 1028.40

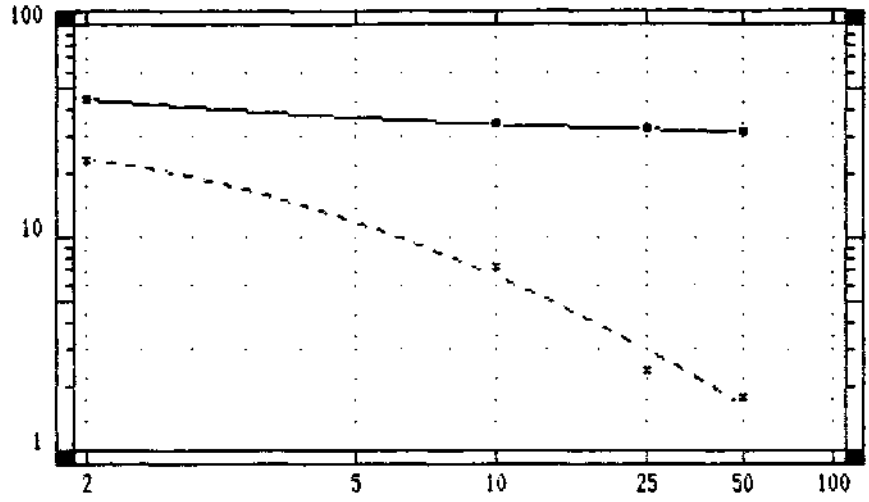


EXCEEDANCE PROBABILITY	VIRGIN FLOW	PRESENT FLOW
99	6.B	34.8
98	9.3	36.5
95	15.7	40.3
90	24.0	44.7
85	31.5	50.7
75	53.0	88.0
60	143.0	208.0
50	238.0	315.0
40	382.0	458.0
25	770.0	803.0
15	1290.0	1280.0
10	1830.0	1760.0
5	2900.0	2820.0
2	4550.0	4420.0
1	6120.0	5790.0
Mean	706.0	739.0

LOW FLOWS

Stream = 1 River Nile = 127.30 Drainaqe Area = 1028.40

Example 1. Streamflow Downstream of Lake Decatur



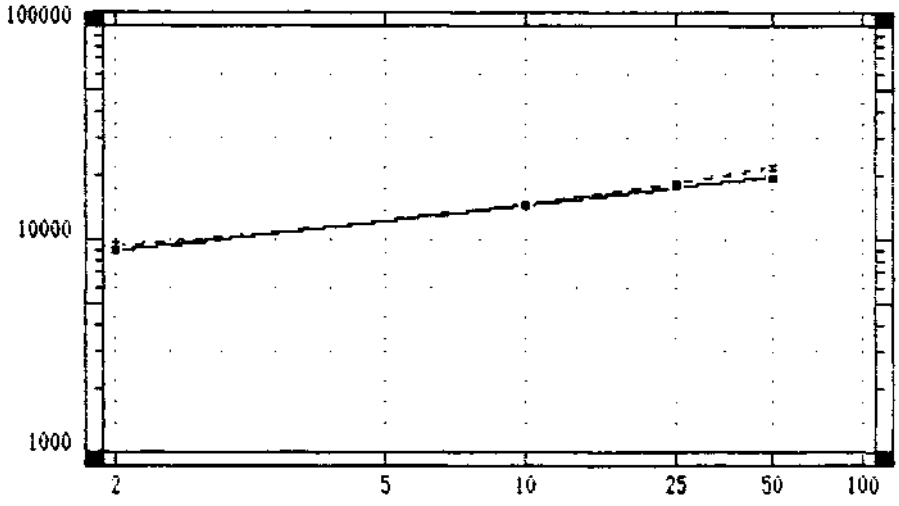
DURATION : 7 DAYS

RETURN PERIOD	VIRGIN FLOW	PRESENT FLOW
2	23.200	44.500
10	7.300	34.000
25	2.400	32.200
50	1.800	31.500

HIGH FLOWS

Stream = 1 River Mile = 127.30 Drainaqe Area = 1028.40

Example 1. Streamflow Downstream of Lake Decatur



DURATION : t DAY

RETURN PERIOD	VIRGIN FLOW	PRESENT FLOW
2	9380	3850
10	14600	14400
25	18500	17900
50	21800	19600

Example 2. Irrigation Withdrawal (Dry Season) from Lake Fork

Assume that the user wants to examine the effect of a constant 1.0 cfs withdrawal from Lake Fork (south of Mt. Pulaski) during the months of July and August. STREAM does not have the capability to differentiate withdrawals on a monthly basis, therefore the user should enter a withdrawal of 1.0 cfs for the entire year but examine those flows pertaining only to July and August. For example, note that the altered flow conditions causes many low flow values to become zero. However, the values of the altered Q98 in the monthly flow duration curves for July and August (2.91 and 1.47, respectively) are well above these low flow values, suggesting that the potential July-August withdrawal will have little effect on critical low flow periods.

Model Input:

```
Print Option:  TABULAR
Selection of Analyses:
     Options #2 - Low Flows
             #5 - Monthly Flow Durations
Point of Interest on the Stream:
     "Stream code for the site to be analyzed":  IEI
     "Approximate river mile at the point of interest":  20.8
     "How many river miles below this point will be analyzed":  0.0
"Press 'ESCape' for no modification, 'RETurn' to enter modification
  curve":  RETURN
"Enter a 'W' for a withdrawal, a 'D' for a discharge to the stream":  W
"Press the 'F' key to enter the entire flow duration curve":  RETURN
"Will maximum withdrawal occur during dry periods?":  YES
"Enter the average rate of WITHDRAWAL":  1.0
"Enter the maximum daily rate of WITHDRAWAL":  1.0
"Enter the maximum monthly rate of WITHDRAWAL":  1.0
"Enter the minimum monthly rate of WITHDRAWAL":  1.0
```

Stream = IEI River Mile = 20.80 Drainage Area = 154.24

Example 2. Irrigation Withdrawal from Lake Fork

LOW FLOW CURVES

	1 DAY			7 DAYS		
RETURN PERIOD	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
2	2.758	2.758	1.758	3.482	3.482	2.482
10	0.546	0.546	0.000	0.813	0.813	0.000
25	0.204	0.204	0.000	0.349	0.349	0.000
50	0.064	0.064	0.000	0.125	0.125	0.000

	15 DAYS			31 DAYS		
RETURN PERIOD	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
2	4.175	4.175	3.175	4.714	4.723	3.723
10	1.026	1.026	0.026	1.329	1.329	0.329
25	0.512	0.512	0.000	0.708	0.708	0.000
50	0.211	0.211	0.000	0.367	0.367	0.000

	61 DAYS			91 DAYS		
RETURN PERIOD	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
2	5.914	6.110	5.110	7.667	7.997	6.997
10	1.682	1.682	0.682	2.230	2.230	1.230
25	0.909	0.909	0.000	1.156	1.156	0.156
50	0.502	0.502	0.000	0.652	0.652	0.000

MONTHLY FLOW DURATION CURVES

	JANUARY			FEBRUARY		
EXCEEDANCE PROBABILITY	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
98	1.19	1.33	0.33	2.44	2.62	1.62
90	2.78	2.98	1.98	4.08	4.35	3.35
75	6.44	6.77	5.77	22.78	23.17	22.17
50	33.95	34.49	33.49	64.54	65.18	64.18
25	96.46	97.31	96.31	172.46	173.48	172.48
10	253.03	254.21	253.21	354.59	355.86	354.86
2	847.06	848.60	847.60	950.20	951.78	950.78
Mean	103.70	104.55	103.55	156.28	157.24	156.24

Stream = IEI River Mile = 20.80 Drainage Area = 154.24

Example 2. Irrigation Withdrawal from Lake Fork

MONTHLY FLOW DURATION CURVES

MARCH

EXCEEDANCE PROBABILITY	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
98	4.37	4.62	3.62
90	25.92	26.37	25.37
75	44.30	44.89	43.89
50	107.61	108.46	107.46
25	220.09	221.20	220.20
10	445.51	446.87	445.87
2	1004.04	1005.64	1004.64
Mean	187.00	188.06	1B7.06

APRIL

VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
11.63	11.92	10.92
28.49	29.01	28.01
65.58	66.22	65.22
124.87	125.78	124.78
237.12	238.28	237.28
417.86	419.22	418.22
977.40	979.00	978.00
210.31	211.41	210.41

MAY

EXCEEDANCE PROBABILITY	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
98	5.97	6.24	5.24
90	33.97	34.47	33.47
75	53.06	53.65	52.65
50	91.76	92.51	91.51
25	170.42	171.40	170.40
10	345.37	346.64	345.64
2	1060.53	1062.09	1061.09
Mean	166.31	167.31	166.31

JUNE

VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
10.82	11.07	10.07
20.85	21.26	20.26
33.50	34.01	33.01
65.47	66.11	65.11
163.81	164.74	163.74
361.88	363.15	362.15
998.06	999.66	998.66
164.82	165.73	164.73

JULY

EXCEEDANCE PROBABILITY	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
98	3.75	3.91	2.91
90	6.56	6.84	5.84
75	17.49	17.87	16.87
50	35.47	36.01	35.01
25	84.61	85.31	84.31
10	182.53	183.59	182.59
2	605.59	607.03	606.03
Mean	89.84	90.59	89.59

AUGUST

VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
2.35	2.47	1.47
4.80	5.00	4.00
6.98	7.25	6.25
12.77	13.14	12.14
29.67	30.18	29.18
87.73	88.54	87.54
452.59	453.95	452.95
55.47	56.09	55.09

SEPTEMBER

EXCEEDANCE PROBABILITY	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
98	0.71	0.81	0.00
90	2.63	2.79	1.79
75	4.46	4.67	3.67
50	7.18	7.46	6.46
25	15.44	15.82	14.82
10	44.18	44.79	43.79
2	201.00	202.18	201.18
Mean	23.56	24.06	23.06

OCTOBER

VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
0.95	1.04	0.04
2.63	2.77	1.77
4.33	4.53	3.53
6.40	6.68	5.68
22.46	22.93	21.93
65.46	66.21	65.21
419.80	421.03	420.03
.38.17	38.71	37.71

Stream = IEI River Mile = 20.80 Drainage Area = 154.24

Example 2. Irrigation Withdrawal from Lake Fork

MONTHLY FLOW DURATION CURVES

	NOVEMBER			DECEMBER		
EXCEEDANCE PROBABILITY	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW	VIRGIN FLOW	PRESENT FLOW	ALTERED FLOW
98	1.18	1.28	0.28	0.85	0.97	0.00
90	2.57	2.73	1.73	2.53	2.71	1.71
75	4.71	4.95	3.95	5.11	5.38	4.38
50	11.40	11.77	10.77	13.76	14.19	13.19
25	33.86	34.42	33.42	61.30	61.94	60.94
10	75.82	76.67	75.67	187.42	188.48	187.48
2	185.97	187.29	186.29	654.53	656.05	655.05
Mean	27.80	28.34	27.34	70.44	71.12	70.12

Example 3. Wet Season Withdrawal from Flat Branch

This example examines the effect on the Flat Branch near Taylorville of pumping water to supplement storage in Lake Taylorville. Assume that the designed pumping scheme involves withdrawing 5 cfs when flow exceeds the Q80 (80% probability of exceedance), withdrawing 20.0 cfs when flow exceeds the Q50, and withdrawing 50 cfs when flow exceeds the Q20.

Two methods of possible input are examined. For the first (Example 3A), the user inputs an entire flow duration curve to describe the withdrawal. The second input strategy uses minimal input, allowing the model to construct the flow duration curve of the withdrawal (the methodology involved is described in Section VI.). The altered flows computed using the two methods are fairly similar. Use of the entire flow duration curve has the advantage of being more exact, whereas the smoothing effect associated with the Example 3B methodology might suggest a result that is more practical with concern to actual pumping operations. The average rate of withdrawal associated with Example 3B is computed as follows: [50 cfs x 20% + 20 cfs x (50%-20%) + 5 cfs x (80%-50%)J/80% = 21.875 cfs. The divisor in the computation, 80%, is the percent of time the withdrawal occurs. The computation of the mean flow in Example 3A is similar except the divisor is 100%.

Model Input, Example 3A:

```
Print Option:  GRAPHICAL
Selection of Analyses:
     Options #1 - Flow Duration Curve
             #4 - Drought Flows; 6 month, 18 month, & 30 month durations
Point of Interest in the Streams:
     "Stream code for the site to be analyzed":  IKR
     "Approximate river mile at the point of interest":  1.0
     "How many river miles below this point will be analyzed":  0.0
"Press 'ESCape' for no modification, 'RETurn' to enter modification
  curve":  RETURN
"Enter a 'W' for a withdrawal, a 'D' for a discharge to the stream":  W
"Press the 'F' key to enter the entire flow duration curve":  F

Probability   Flow     Probability   Flow     Probability   Flow
    99%      ?  0.0        75%     ?  5.0        15%     ? 50.0
    98%      ?  0.0        60%     ?  5.0        10%     ? 50.0
    95%      ?  0.0        50%     ? 20.0         5%     ? 50.0
    90%      ?  0.0        40%     ? 20.0         2%     ? 50.0
    85%      ?  0.0        25%     ? 20.0         1%     ? 50.0

                      Enter the MEAN flow?  17.5
```

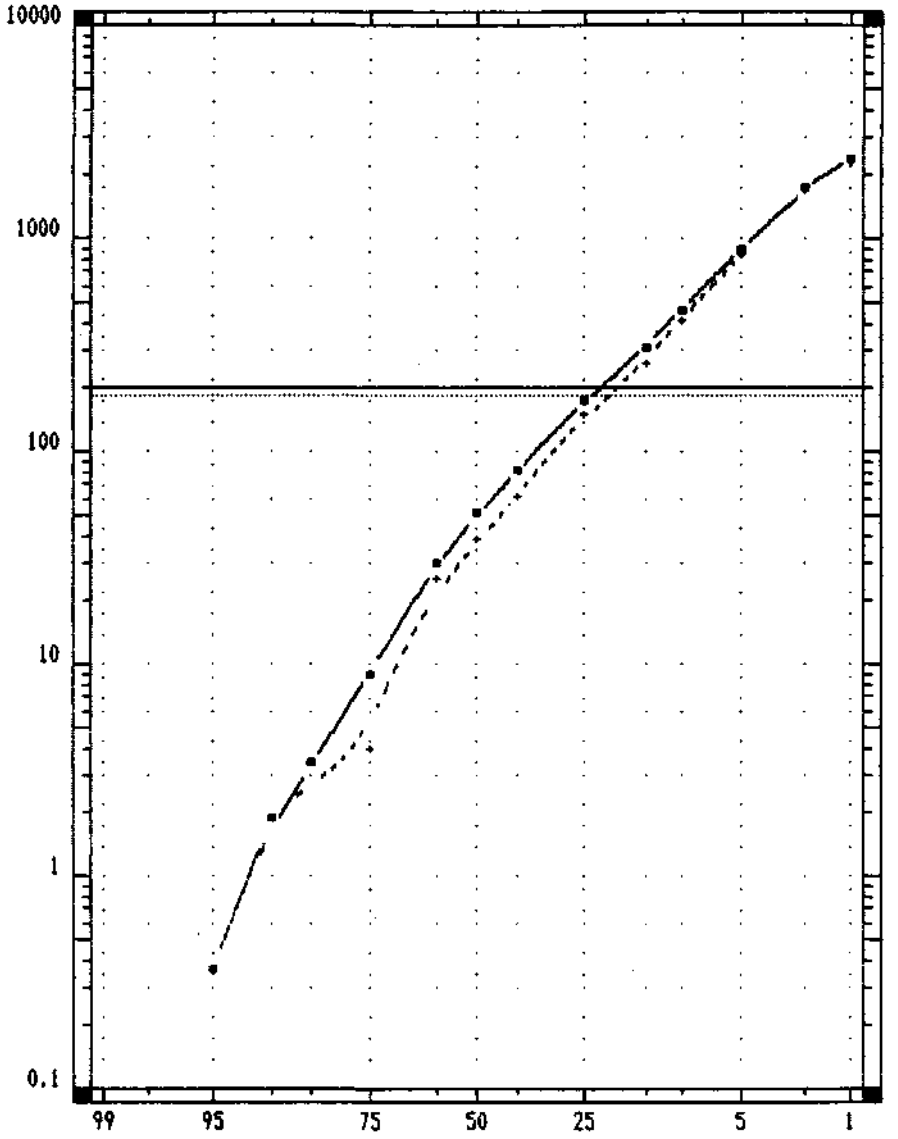
Model Input, Example 3B:

```
"Press the 'F' key to enter the entire flow duration curve":  RETURN
"Will maximum withdrawal occur during dry periods?":  NO
"Enter the average rate of WITHDRAWAL":  21.875
"Enter the minimum daily rate of WITHDRAWAL":  0.0
"Enter the maximum monthly rate of WITHDRAWAL":  50.0
"Enter the minimum monthly rate of WITHDRAWAL":  0.0
"What percent of the time does the WITHDRAWAL occur":  80.0
```

FLOW DURATION

Stream = IKR River Mile = 1 Drainage Area = 276.60

Example 3. Met Season Withdrawal fron Flat Branch

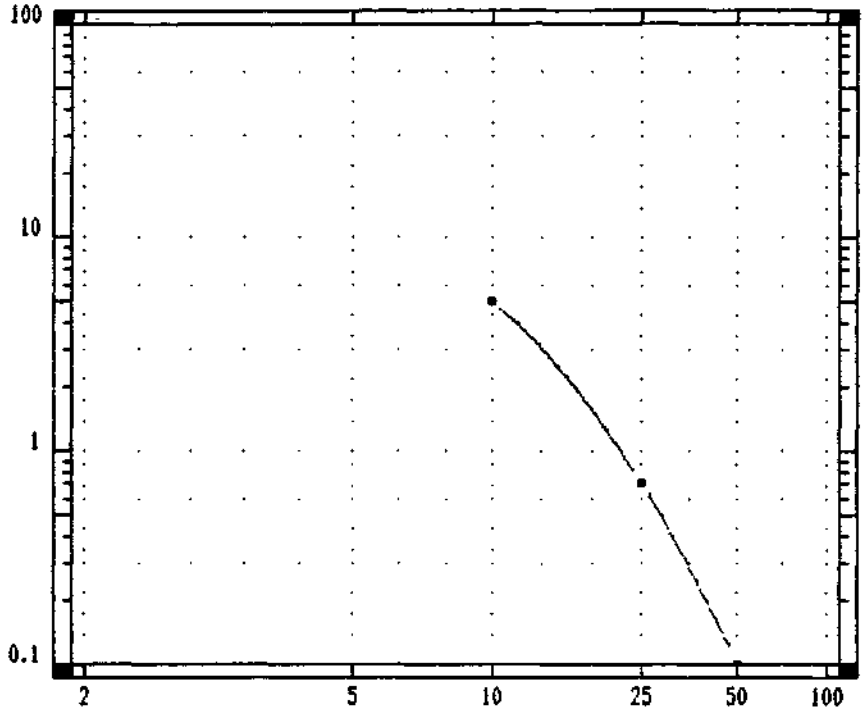


EXCEEDANCE PROBABILITY	PRESENT FLOW	ALTERED FLOW
99	0.0	0.0
98	0.0	0.0
95	0.4	0.4
90	1.9	1.9
85	3.4	3.4
75	9.0	4.0
60	30.1	25.1
50	51.1	38.6
40	82.2	62.2
25	170.4	150.4
15	308.7	258.7
10	456.1	406.1
5	891.9	841.9
2	1713.2	1663.2
1	2354.2	2304.2
Mean	201.3	183.8

DROUGHT FLOWS

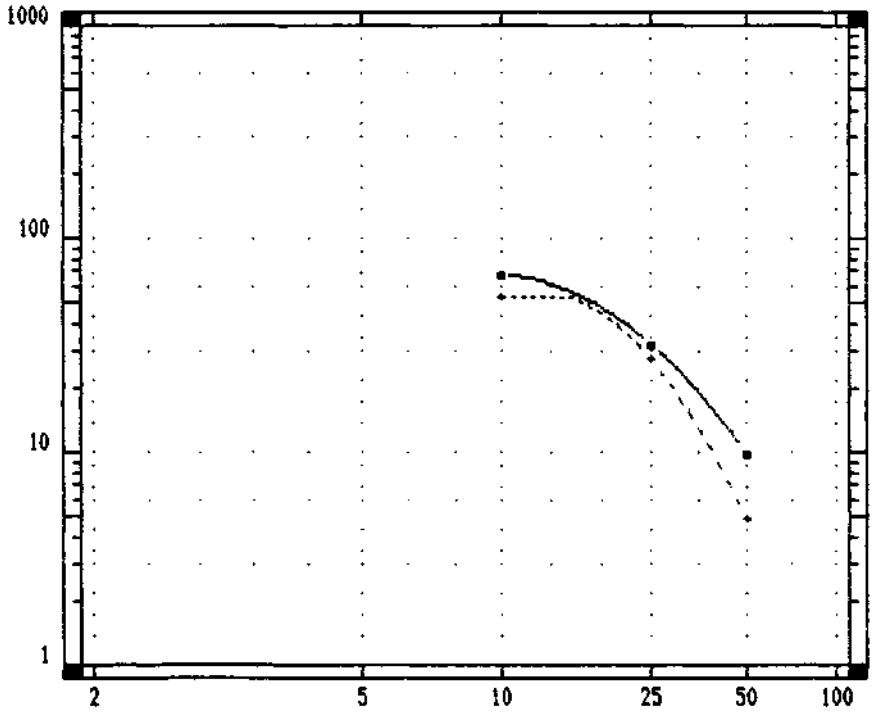
Stream = IKR River Mile = 1 Drainage Area = 276.60

Exaaple 3. Wet Season Withdrawal fron Flat Branch



DURATION : 6 MOS

RETURN PERIOD	PRESENT FLOW	ALTERED FLOW
10	5.007	5.007
25	0.703	0.703
50	0.101	0.101



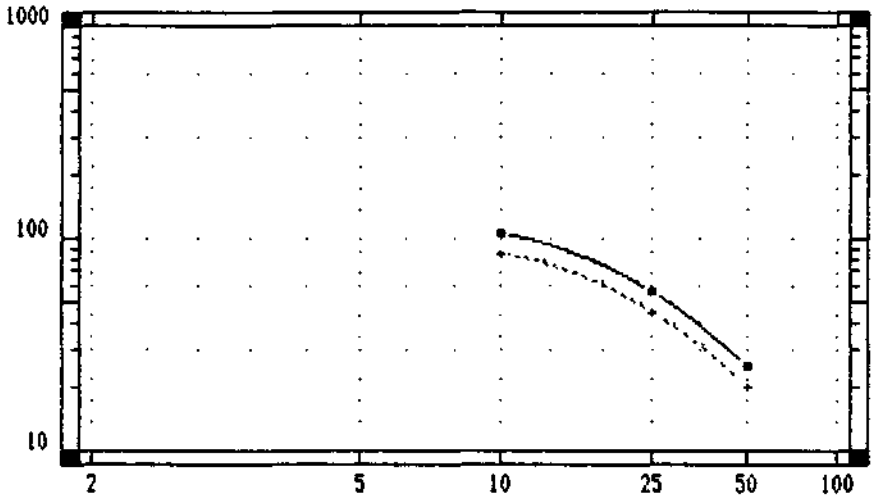
DURATION : 18 HOS

RETURN PERIOD	PRESENT FLOW	ALTERED FLOW
10	67.12	53.12
25	32.04	27.04
50	9.81	4.81

DROUGHT FLOWS

Stream = IKR River Mile = 1 Drainage Area = 276.60

Example 3. Met Season Withdrawal fron Flat Branch



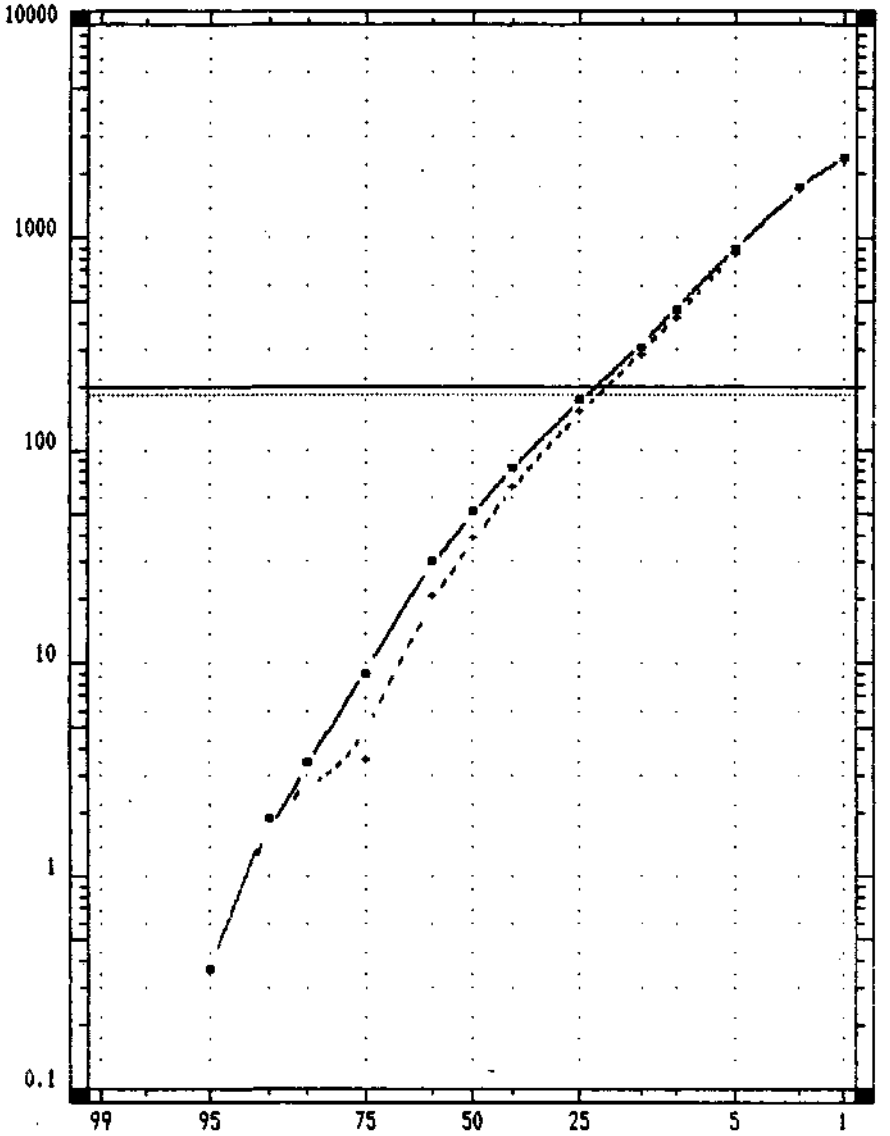
DURATION : 30 MOS

RETURN PERIOD	PRESENT FLOW	ALTERED FLOW
10	105.20	85.20
25	56.09	45.09
50	25.03	20.03

FLOW DURATION

Stream = IKR River Mile = 1 Drainage Area = 276.60

Example 3B. Met Season Withdrawal from Flat Branch

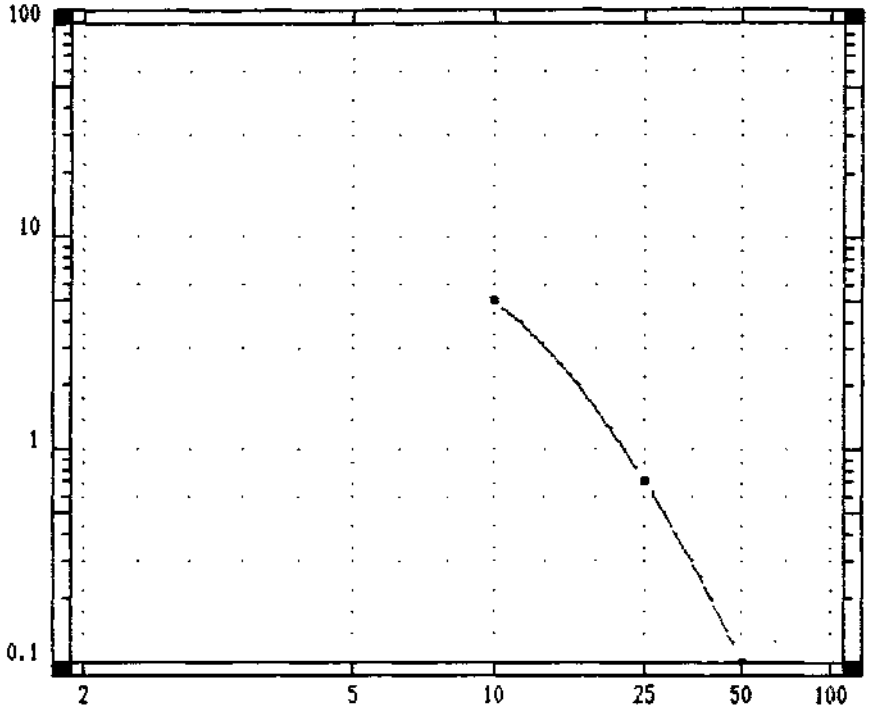


EXCEEDANCE PROBABILITY	PRESENT FLOW	ALTERED FLOW
99	0.0	0.0
98	0.0	0.0
95	0.4	0.4
90	1.9	1.9
85	3.4	3.4
75	9.0	3.6
60	30.1	20.4
50	51.1	38.8
40	82.2	67.3
25	170.4	155.6
15	308.7	284.7
10	456.1	425.8
5	891.9	852.4
2	1713.2	1663.2
1	2354.2	2297.2
Mean	201.3	183.8

DROUGHT FLOWS

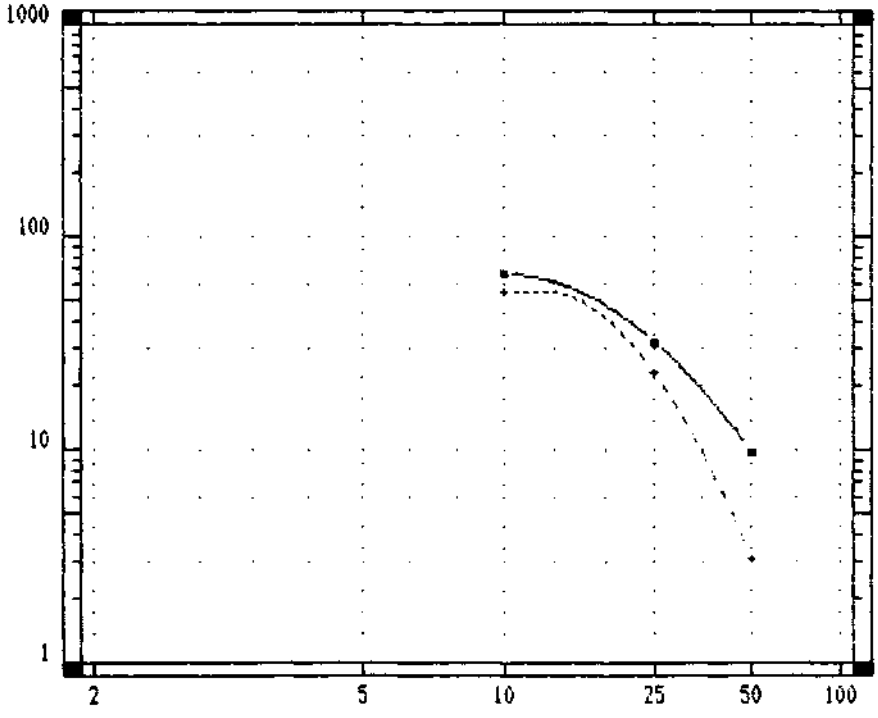
Stream = IKR River Mile = 1 Drainage Area = 276.60

Example 3B. Net Season Withdrawal from Flat Branch



DURATION : 6 HOS

RETURN PERIOD	PRESENT FLOW	ALTERED FLOW
10	5.007	5.007
25	0.703	0.703
50	0.101	0.101



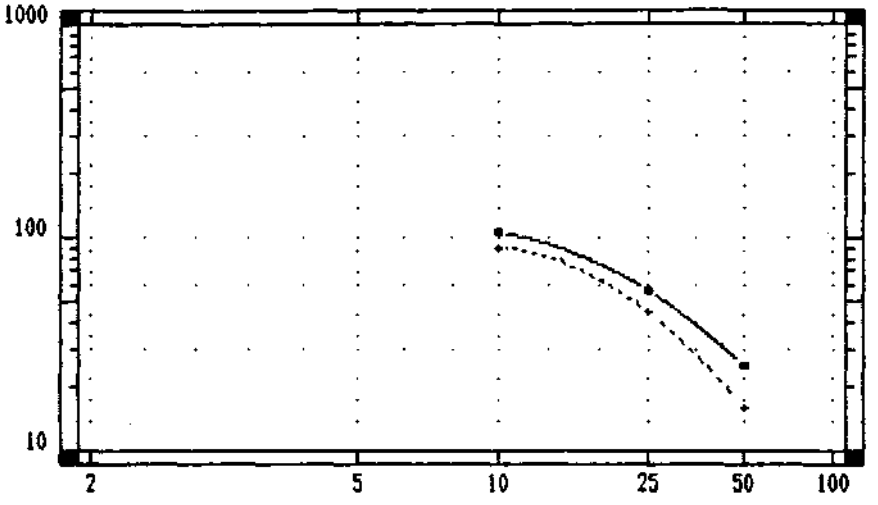
DURATION : 18 HOS

RETURN PERIOD	PRESENT FLOW	ALTERED FLOW
10	67.12	54.34
25	32.04	22.79
50	9.81	3.09

DROUGHT FLOWS

Stream = IKR River Mile = 1 Drainage Area = 276.60

Example 3B. Net Season Withdrawal from Flat Branch



DURATION : 30 MOS

RETURN PERIOD	PRESENT FLOW	ALTERED FLOW
10	105.20	90.36
25	56.09	44.35
50	25.03	15.78

Appendix A. Listing of All Streams Indexed in the Streamflow Assessment Model

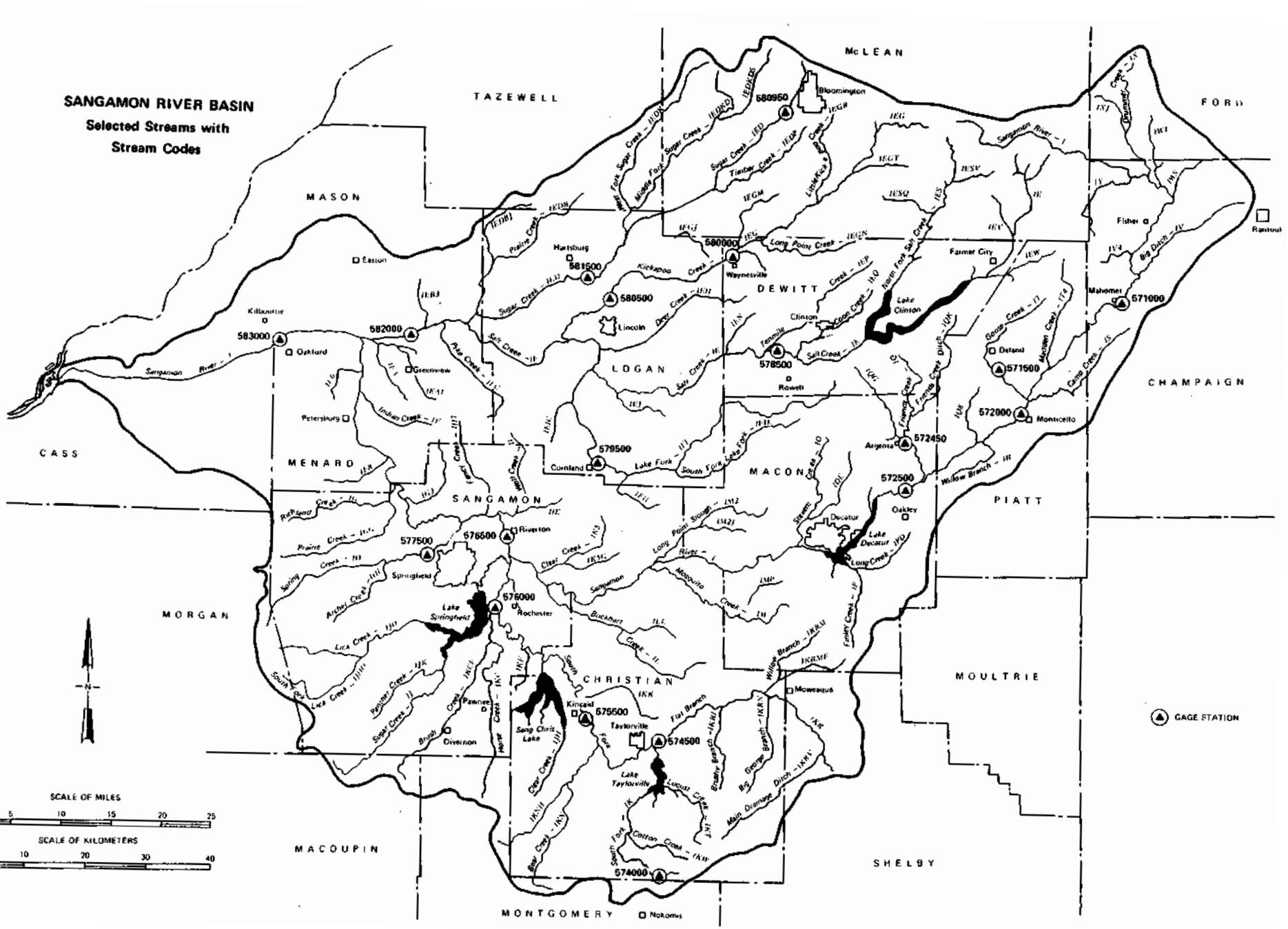
Streams Listed by Hydrologic Network with River Miles of Confluence	SMS CODE
SANGAMON R	I
36.1 SALT CR	IE
.1 CABINESS CR	IEA
1.6 SROVE CR	IEAE
2.1 UNNAMED TRIB (SW, 4,19N, 6W)	IEA4
5.7 SLEEPY HOLLOW D	IEB
6.4 UNNAMED TRIB (NW,31,20N, SH)	IEB3
8.2 PIKE CR	IEC
11.0 SUGAR CR	IED
1.2 PRAIRIE CR	IEDB
6.2 UNNAMED TRIB (NE,31,21N, 4W)	IEDBH
7.3 PRAIRIE CR D	IEDBJ
12.6 UNNAMED TRIB (SW,13,21N, 4W)	IEDBP
22.9 NEST FK SUGAR CR	IEDK
3.8 MIDDLE FK SUGAR CR	IEDKD
2.2 UNNAMED TRIB (NW,26,22N, 2W)	IEDKDC
13.8 UNNAMED TRIB (NW,27,23N, 1W)	IEDKDO
17.3 KINGS MILL CR	IEDKDS
6.5 UNNAMED TRIB (NE,20,22N, 2W)	IEDKF
12.8 UNNAMED TRIB (NW,34,23N, 2W)	IEDKK
35.5 TIMBER CR	IEDP
19.7 UNNAMED TRIB (NE,23,19N, 4W)	IEF
24.5 KICKAPOO CR	IEG
23.3 CLEAR CR	IEGJ
26.8 ROCK CR	IEGL
27.6 PRAIRIE CR	IEGM
30.7 L0NG POINT CR	IEGN
39.4 LITTLE KICKAPOO CR #1	IEGR
44.8 LITTLE KICKAPOO CR #2	IEGT
51.9 UNNAMED TRIB (NE,21,23N, 3E)	IEGN
29.3 DEER CR	IEH
1.2 SALT SPRING BR	IEHC
32.6 LAKE FK	IEI
3.1 ELKHART SL0UGH	IEIC
13.6 UNNAMED TRIB (NE,12,17N, 2W)	IEIH
16.4 HUNTER SLOUGH	IEII
* 21.6 NORTH FK LAKE FK	IEI
32.6 UNNAMED TRIB (SE, 5,18N, 1E)	IEIQ
21.6 SOUTH FK LAKE FK	IEIL
6.9 UNNAMED TRIB (NE, 6,17N, 1E)	IEILL
37.2 UNNAMED TRIB (SW,32,19N, 2W)	IEJ
55.7 UNNAMED TRIB (SE,12,19N, 1W)	IEN
62.7 TENMILE CR	IEP
65.9 COON CR	IEQ
76.7 NORTH FK SALT CR	IES
16.5 UNNAMED TRIB (SW, 4,21N, 4E)	IESO
18.6 WEST FK NORTH FK SALT CR	IESQ
23.1 UNNAMED TRIB (SE,15,22N, 4E)	IESU
23.7 UNNAMED TRIB (SW,14,22N, 4E)	IESV
94.4 UNNAMED TRIB (SW,31,21N, 5E)	IEV6
96.2 TRENKLE SLOUGH	IEW
98.8 UNNAMED TRIB (NW,27,21N, 5E)	IEX
103.0 UNNAMED TRIB (SW,U,21N, 5E)	IEY

SANGAMON R

41.6	CONCORD CR	IE6
44.5	INDIAN CR	IF
54.9	ROCK CR	IF8
59.2	RICHLAND CR	IG
4.4	PRAIRIE CR	IGG
63.2	CANTRALL CR	IG3
75.0	SPRING CR #1	IH
8.3	JACKSONVILLE BR	IHG
16.2	ARCHER CR	IHL
19.4	LITTLE SPRING CR	IHN
79.5	FANCY CR	IH7
5.6	UNNAMED TRIB (SW,18,17N, 4W)	IH7J
81.2	WOLF CR	II
2.5	UNNAMED TRIB (SW,34,17N, 4W)	HE
86.9	SUGAR CR	IJ
14.9	LICK CR	IJH
16.9	SOUTH FK LICK CR	IJHO
3.6	JOHNS CR	IJH0G
19.6	PANTHER CR	UK
86.9	SOUTH FK SANGAM0N R	IK
3.0	BLACK BR	IKB
7.4	HORSE CR	IKC
6.6	BRUSH CR	IKCF
22.5	WEST BR HORSE CR	IKCQ
18.7	UNNAMED TRIB (SW,11,14N, 4W)	IKF
23.8	CLEAR CR	IKH
1.1	CLEAR CR (WEST)	IKHC
4.9	UNNAMED TRIB (SE, 2,13N, 4W)	IKHCF
2.9	UNNAMED TRIB (SW,29,14N, 3W)	IKHE
37.1	UNNAMED TRIB (SE, 3,13N, 3W)	IKK
45.4	PANTHER CR	IKM8
46.0	BEAR CR	IKN
5.9	PRAIRIE FK	IKNH
13.0	UNNAMED TRIB (SW, 9,11N, 3W)	IKNQ
51.3	BRUSH CR (NW, 8,12N, 2W)	IKP
57.0	FLAT BR	IKR
12.1	BRUSHY BR	IKRI
4.1	NEST FK BRUSHY BR (NW,25,13N, IW) ,	IKRIL
14.7	OAK BR	IKRK
17.6	WILLOW BR	IKRM
2.2	L0NG GR0VE CR	IKRMF
4.1	DRY BR	IKRMJ
18.3	BIG GEORGE BR	IKRN
22.6	UNNAMED TRIB (SE, 5,13N, 2E)	IKRQ
29.5	LAKE FK	IKRV
+ 4.0	MAIN DRAINAGE D	IKRV
9.8	UNNAMED TRIB (SE,27,12N, 1E)	IKRVO
62.8	LOCUST CR	IKT
71.2	COTTON CR	IKN
91.2	CLEAR CR	IK5
3.6	GRIFFITH CR	IK56
3.9	NORTH FK CLEAR CR	IK5H
93.7	BUCKHART CR	IL
4.1	UNNAMED TRIB (SE,16,15N, 3W)	ILE
12.1	UNNAMED TRIB (NE,32,15N, 2W)	ILL
108.4	MOSQUITO CR	IH
12.4	SPRING CR	IMP

SANGAMON R

109.6	LONG POINT SLOUGH	IM2
5.0	UNNAMED TRIB (NW, 9,16N, 1W)	IM2H
6.3	NIANTIC CR iSE, 3,16N, 1W)	IM2J
128.4	STEVENS CR	IO
4.8	SPRING CR	IDE
132.2	SAND CR	109
132.3	FINLEY CR	IP
1.9	L0NG CR	IPD
1.9	BIB CR	IPDE
145.0	UNNAMED TRIB (NE,19,17N, 4E)	IP9
146.7	FRIENDS CR	IQ
6.4	NEST BR FRIENDS CR	IBS
1.0	KICKAPOO CR	IQGC
10.3	FRIENDS CR D	IQK
155.0	WOLF RUN D	IQ8
155.6	WILLON BR	IR
163.8	CAMP CR	IS
7.0	UNNAMED TRIB (NE,35,19N, 6E)	ISK
164.4	GOOSE CR	IT
8.2	UNNAMED TRIB (NE,17,19N, 5E)	ITL
169.8	MADDEN CR	IT4
191.9	BIG D	IV
195.5	UNNAMED TRIB (NN,23,21N, 7E)	IV4
197.7	WILDCAT SL0UGH	IV7
200.1	OWL CR	IW
205.5	HILLSBURY SLOUGH	INS
208.0	DICKERSON SLOUGH	IW7
211.2	DRUMMER CR	IX
5.9	UNNAMED TRIB (SW,22,23N, 7E)	IXI
6.2	WEST BR DRUMMER CR	IXJ
213.6	LONETREE CR	IY
4.7	UNNAMED TRIB (SE,18,22N, 7E)	IYI


SANGAMON RIVER BASIN
Selected Streams with
Stream Codes
TAZEWELL
McLEAN
FORD
MASON
DEWITT
LOGAN
CHAMPAIGN
CASS
MENARD
SANGAMON
MACON
PIATT
MORGAN
CHRISTIAN
MOULTRIE
MACOUPIN
SHELBY
MONTGOMERY
Bloomington
Hartsburg
Easton
Waynesville
Farmer City
Fisher
Rantoul
Mahomet
Kilbourne
Oakford
Lincoln
Clinton
Lake Clinton
Tennile
Rowell
Deland
Monticello
Greenview
Petersburg
Cornland
Argenta
Riverton
Decatur
Oakley
Lake Decatur
Springfield
Lake Springfield
Rochester
Kincaid
Taylorville
Lake Taylorville
Sang Chris Lake
Pawnee
Divernon
Mowequa
Nokomis
580950
580000
581500
580500
582000
583000
578500
571500
572000
572450
572500
579500
576500
577500
576000
575500
574500
574000
GAGE STATION
SCALE OF MILES
0 5 10 15 20 25
SCALE OF KILOMETERS
0 10 20 30 40

APPENDIX B. RIVER MILE LISTING FOR STREAMS IN THE STREAMFLOW ASSESSMENT MODEL

The following listing describes the river miles and drainage area relationships used for the Sangamon basin in the Streamflow Assessment Model. This river mile listing is based on the U.S.G.S. publication "River Mileages and Drainage Areas for Illinois Streams," however some of the river mile and drainage area estimates have been changed for this listing as a result of more recent information. The changes are intended to allow the river miles used by the Streamflow Assessment Model to match those river miles used by the Illinois Streams Information System (Illinois Department of Conservation), but total equivalence is not guaranteed.

Reference

Healy, R. W., 1979, River Mileages and Drainage Areas for Illinois Streams, Volume 2; Illinois River Basin. U.S. Geological Survey, Water Resource Investigation 79-111.

	RIVER MILEAGE	POINT OF INTEREST	DRAINAGE AREA		RIVER MILEAGE	POINT OF INTEREST	DRAINAGE AREA
		I SANGAMON R (MOUTH @ ILLINOIS RIVER MILE 98.0) MASON					
*	0.0	AT MOUTH NR BROWNING	5362.0		86.2	COAL BANK BRIDGE	
*	12.8	JOBS CR	5260.0	***	86.9	SUGAR CR	
*	16.1	PANTHER CR	5204.0		86.9	SOUTH FK SANGAMON RIVER	1445.0
	16.4	05583500 NR CHANDLERVILLE	5208.0		89.8	ROAD S25,T15N,R 4W	
	17.0	IL RT 78		*	91.0	CLEAR CR	1380.0
	17.3	J & H RR		*	93.5	BUCKHART CR	1268.0
*	20.8	MIDDLE CREEK	5166.0		96.0	ROAD S 9,T15N,R 3W	
*	25.1	CLARY CREEK	5100.0		99.6	ROAD S14,T15N,R 3W	
*	26.2	TAR CREEK	5081.0	*	99.6	05573800 AT ROBY	1262.0
	27.3	C & I M RR			100.6	SANGAMON R TRIBUTARY	
***	27.3	05583000 NR OAKFORD	5080.0	*	107.7	MOSQUITO CR	1153.0
	27.3	IL RT 97		*	108.9	LONG POINT SLOUGH	1088.0
*	28.2	CRANE CREEK	4983.0		109.7	ROAD S30,T16N,R 1W	
***	36.1	SALT CREEK	3116.0		111.3	SANGAMON-MACON CO LN	
	36.3	MASON-MENARD CO LINE			114.7	ROAD S25 T16N R01W	
	40.1	ALTIG BRIDGE			117.8	LINCOLN TRAIL BRIDGE	
*	41.6	CONCORD CR	3093.0	*	117.8	05573650 NR NIANTIC	1054.0
	44.2	G M & O RR			120.2	ROAD S27,T16N,R 1E	
*	44.5	INDIAN CR	3066.0	***	127.3	STEVENS CR	941.0
	47.1	IL RT 123			129.3	NORFOLK & WESTERN RR	
	47.5	DAM S13,T18N,R 7W			129.4	IL RT 48	
	47.5	05578000 AT PETERSBURG	3063.0		129.4	05573540 AT IL HWY 48	938.0
	49.0	C & I M RR			130.5	05573505 BELOW LAKE DECATUR	927.0
	49.9	ROAD S25,T18N,R 7W			130.5	DAM S22,T16N,R 2E	
*	54.6	TOWN BRANCH	3024.0		130.6	IC RR	
*	54.9	ROCK CREEK	3007.0	***	130.8	05573500 AT LAKE DECATUR	925.0
	55.6	ROAD S 3,T17N,R 6W			130.8	LAKE DECATUR DAM	
	59.0	MENARD-SANGAMON CO LN			130.8	US HWY 51	
*	59.2	RICHLAND CREEK	2913.0	*	132.2	SAND CR	907.0
	60.8	ROAD S23,T17N,R 6W		*	132.3	FINLEY CR	823.0
*	63.2	CANTRALL CR	2884.0		132.6	LOST BRIDGE	
	68.8	C & NW RR			133.8	05573000 AT DECATUR	820.0
	71.6	SANGAMON R TRIBUTARY			133.8	BALTIMORE & OHIO RR	
	72.8	IL RT 29			135.8	WILLIAM STREET	
***	75.0	SPRING CREEK	2737.0		136.6	NORFOLK & WESTERN RR	
	75.0	DAM S 3,T16N,R 5W			138.3	ROAD S33,T17N,R 3E	
	75.7	C & I M RR			142.1	ROAD S23,T17N,R 3E	
	75.7	05577000 AT SPRINGFIELD	2737.0	*	144.2	SANGAMON R TRIBUTARY	774.0
	77.1	US HWY 66			144.3	ROAD S24,T17N,R 3E	
	77.6	G M & O RR		*	144.3	05572500 NR OAKLEY	774.0
	78.4	ILLINOIS TERMINAL RR		*	145.0	SANGAMON R TRIBUTARY	764.0
	78.7	INTERSTATE 55		*	146.7	FRIENDS CR	632.0
*	79.5	FANCY CR	2688.0		149.2	MACON-PIATT CO LN RD	
*	81.2	WOLF CR	2625.0		150.4	ROAD S10 T17N R04E	
	83.1	IL CENTRAL RR			150.4	05572300 NEAR CISCO	625.0
	83.1	IL RT 54			154.1	HOG CHUTE BRIDGE	
	84.4	NORFOLK & WESTERN RR		*	155.0	WOLF RUN DITCH	598.0
	84.7	ROAD S16,T16N,R 4W		*	155.6	WILLOW BRANCH	576.0
	84.7	05576500 AT RIVERTON	2618.0		158.4	05572125 @ ALLERTON PK	573.0

* - identifies a point located in the stream network file for which basin data exists.
*** - identifies a location having control point information.

	85.1	US HWY 36			158.4	ROAD S21,T18N,R 5E	
*	158.5	WILDCAT CREEK	564.0		202.6	05570900 NEAR FISHER	237.0
	162.4	ILLINOIS CENTRAL RR		*	205.5	HILLSBURY SLOUGH	215.0
***	162.6	05572000 AT MONTICELLO	550.0		207.2	ROAD S20,T22N,R 8E	
	162.6	ROAD S12,T18NR 5E		*	208.0	DICKERSON SLOUGH	182.0
*	163.8	CAMP CR	494.0		208.8	ROAD S17,T22N,R 8E	
	163.9	IL RT 47			210.9	ROAD S13,T22N,R 8E	
	164.0	INTERSTATE 72		*	211.2	DRUMMER CREEK	116.0
	164.1	ROAD S 1,T18N,R 5E			212.2	ROAD S12,T22N,R 7E	
*	164.4	GOOSE CR	435.0		212.9	IL RT 47	114.0
	164.9	WABASH RR		*	213.6	LONE TREE CREEK	66.8
	166.0	ROAD S31,T19N,R 6E			213.8	ROAD S11,T22N,R 7E	
	167.7	ROAD S29,T19N,R 6E			215.9	ROAD S 3,T22N,R 7E	
*	169.8	MADDEN CR	398.0		216.9	WABASH RR	
	170.1	ROAD S 2,T19N,R 6E			217.4	ROAD S 4,T22N,R 7E	
	170.2	ILLINOIS CENTRAL RR			219.0	ROAD S 5,T22N,R 7E	
	171.4	IL RT 10			219.4	CHAMPAIGN-FORD CO LINE	
	172.7	ROAD S10,T19N,R 6E			219.6	FORD-CHAMPAIGN CO LINE	
	173.2	ROAD S11,T19N,R 6E			220.0	US HWY 54	
	176.7	ROAD SO1 T19N RO6E			220.1	CHAMPAIGN-FORD CO LINE	
	177.7	PIATT-CHAMPAIGN CO LINE		*	220.3	FORD-MCLEAN CO LINE	53.3
	181.0	ROAD S30,T20N,R 7E			221.6	ROAD S36,T23N,R 6E	
	184.8	IL RT 47			222.7	ROAD S35,T23N,R 6E	
*	185.2	MAHOMET PWS DISCHARGE	363.0	*	224.5	ROAD S26,T23N,R 6E	45.1
	185.4	PENN CENTRAL RR			225.4	N Y C & ST L RR	
***	186.1	05571000 AT MAHOMET	362.0		225.5	ROAD S28,T23N,R 6E	
	186.1	US HWY 150			225.8	N Y C & ST L RR	
	186.2	ROAD S15,T20N,R 7E			227.1	ROAD S20,T23N,R 6E	
	186.7	INTERSTATE 74			228.5	ROAD S19,T23N,R 6E	
	187.8	COVERED BRIDGE			230.3	ROAD S24,T23N,R 5E	
*	191.9	BIG DITCH	292.0	*	230.9	ROAD S23,T23N,R 5E	20.2
	193.1	ROAD S35,T21N,R 7E			231.5	ROAD S26,T23N,R 5E	
	194.3	ROAD S23,T21N,R 7E			232.7	ROAD S27,T23N,R 5E	
*	195.5	SANGAMON R TRIBUTARY	275.0		234.7	ROAD S29,T23N,R 5E	
*	197.7	WILDCAT SLOUGH	254.0		235.8	ROAD S19,T23N,R 5E	
	199.0	ROAD S12,T21N,R 7E			236.5	ROAD S20,T23N,R 5E	
*	200.1	OWL CR	240.0	*	237.4	N Y C & ST L RR	5.6
	201.5	US HWY 136			237.7	ROAD S18,T23N,R 5E	
	201.5	05570910 AT FISHER	240.0		239.4	ROAD S14,T23N,R 4E	
	202.1	ILLINOIS CENTRAL RR			241.3	TOPOGRAPHIC DIVIDE	
	202.6	ROAD S32,T22N,R 8E					

IE SALT CR (MOUTH AT SANGAMON R MILE 36.1)MASON

*	0.0	AT MOUTH NEAR CURTIS	1856.0		8.9	ROAD S28,T20N,R 5W	
*	.1	CABINESS CR	1810.0		10.3	C & NW RR	
	1.9	ROAD S 4,T19N,R 6W		***	11.0	SUGAR CR	1224.0
*	2.1	UNNAMED TRIBUTARY	1799.0		13.9	MASON-LOGAN CO LN	
	4.9	ROAD S 2,T19N,R 6W			14.8	GM & O RR	
***	4.9	05582000 NEAR GREENVIEW	1793.0		15.2	ROAD S 6,T19N,R 4W	
*	5.7	SLEEPY HOLLOW DITCH	1779.0		16.1	SALT CR TRIBUTARY	
	6.3	GM & O RR			17.4	ROAD S16,T19N,R 4W	
*	6.4	UNNAMED TRIBUTARY	1764.0	*	19.7	SALT CR TRIBUTARY	1186.0
*	8.2	PIKE CR			24.1	ROCK FORD BRIDGE	

*	24.5	KICKAPOO CR	845.0
	26.5	INTERSTATE 55	
	28.1	US HWY 66	
	28.2	GM & O RR	
*	29.3	DEER CR	752.0
***	32.6	LAKE FK	470.0
	34.4	ROAD S25,T19N,R 3W	
	36.8	ROAD S31,T19N,R 2W	
*	37.2	SALT CR TRIBUTARY	448.0
	40.2	ILLINOIS CENTRAL RR	
	42.0	IL RT 121	
*	47.9	ROAD S32,T19N,R 1W	427.6
*	51.4	ROAD S22,T19N,R 1W	416.4
	54.4	ROAD S13,T19N,R 1W	
*	55.7	UNNAMED TRIBUTARY	390.0
	55.9	LOGAN-DEWITT CO LINE	
	57.2	ROAD S 7,T19N,R 1E	
	57.2	05579000 NEAR KENNEY	390.0
	57.9	PENNSYLVANIA RR	
	60.9	ROAD S15,T19N,R 1E	
*	62.7	TENMILE CR	335.0
	62.7	ILLINOIS CENTRAL RR	
	63.0	US HWY 54	
	63.5	ROAD S11,T19N,R 1E	
***	63.5	05578500 NEAR ROWELL	335.0
	65.8	ROAD S18,T19N,R 2E	
*	65.9	COON CR	312.0
	67.7	ROAD S16,T19N,R 2E	
	69.4	US HWY 51	
*	69.4	05578400 NEAR CLINTON	305.0
	70.0	ILLINOIS CENTRAL RR	
	72.6	ROAD S13,T19N,R 2E	
	74.5	ROAD S 7,T19N,R 3E	
	75.0	ILLINOIS CENTRAL RR	
	75.8	IL RT 10	
***	76.2	CLINTON DAM	292.0
*	76.7	NORTH FK SALT CR	165.0
	77.7	ROAD S 4,T19N,R 3E	
	85.8	ROAD S30,T20N,R 4E	
	89.1	IL RT 48	
	90.7	ROAD S14,T20N,R 4E	
*	94.4	UNNAMED TRIBUTARY	113.0
	95.7	ROAD S32,T21N,R 5E	
*	96.2	TRENKLE SLOUGH	75.5
	97.3	ROAD S33,T21N,R 5E	
	97.5	ROAD S28,T21N,R 5E	
	98.3	NEW YORK CENTRAL RR	
	98.3	US HWY 150	
*	98.8	SALT CR TRIBUTARY	56.6
	99.4	ROAD S27,T21N,R 5E	
	101.5	ROAD S23,T21N,R 5E	
	102.7	US HWY 54	
	102.7	ILLINOIS CENTRAL RR	
*	103.0	UNNAMED TRIBUTARY	37.3
	105.4	US HWY 136	
	107.4	ROAD S36,T22N,R 5E	
	108.0	ROAD S31,T22N,R 6E	
*	108.6	ILLINOIS CENTRAL RR	26.2
	109.1	ROAD S30,T22N,R 6E	
	110.4	ROAD S24,T22N,R 5E	
	111.5	ROAD S13,T22N,R 5E	
	112.0	ROAD S12,T22N,R 5E	
	113.4	ROAD S 6,T22N,R 6E	
	113.9	ROAD S 6,T22N,R 6E	
	115.2	ROAD S31,T23N,R 6E	
	116.0	TOPOGRAPHIC DIVIDE	

IEA CABINESS CR (MOUTH AT SALT CR MILE 0.1) MENARD

*	0.0	AT MOUTH	46.4
*	1.6	GROVE CR	15.4
	2.6	ROAD S 8,T19N,R 6W	
	3.7	ROAD S17,T19N,R 6W	
	4.1	FTBRIDGE S21,T19N,R06W	
	5.3	ROAD S28,T19N,R 6W	
	6.1	GM & O RR	
	6.6	ROAD S28,T19N,R 6W	
	6.7	CABINESS CR TRIBUTARY	
	7.3	ROAD S34,T19N,R 6W	
	8.3	ROAD S35,T19N,R 6W	
	9.3	ROAD S 2,T18N,R 6W	
	9.9	ROAD S 1,T18N,R 6W	
	11.0	TOPOGRAPHIC DIVIDE	

IEAE GROVE CR (MOUTH AT CABINESS CR MILE 1.6) MENARD

*	0.0	AT MOUTH	29.5
	.6	ROAD S 9,T19N,R 6W	
	2.0	ROAD S10,T19N,R 6W	
	2.7	ROAD S10,T19N,R 6W	
	3.2	ROAD S14,T19N,R 6W	
	3.7	ROAD S14,T19N,R 6W	
	4.6	GM & O RR	
	4.9	IL RT 29	
	5.1	ROAD S24,T19N,R 6W	
	5.6	ROAD S24,T19N,R 6W	
	6.2	ROAD S25,T19N,R 6W	
	8.3	ROAD S31,T19N,R 5W	
	9.1	ROAD S 6,T18N,R 5W	
	11.0	TOPOGRAPHIC DIVIDE	

	9.5	ROAD S 5,T18N,R 5W		11.0	ROAD S 4,T18N,R 5W	
	10.3	C & NW RR		12.2	ROAD S 3,T18N,R 5W	
	10.5	ROAD S 5,T18N,R 5W		13.3	TOPOGRAPHIC DIVIDE	

IEB SLEEPY HOLLOW DITCH (MOUTH AT SALT CR MILE 5.7) MENARD

*	0.0	AT MOUTH	12.7	5.6	ROAD S21,T20N,R 6W	
	1.5	IL RT 29		7.2	ROAD S20,T20N,R 6W	
	2.8	ROAD S26,T20N,R 6W		7.5	ROAD S17,T20N,R 6W	
	3.3	ROAD S27,T20N,R 6W		7.8	ROAD S17,T20N,R 6W	
	4.1	ROAD S22,T20N,R 6W		8.4	TOPOGRAPHIC DIVIDE	

IEC PIKE CR (MOUTH AT SALT CR MILE 8.2) MENARD

*	0.0	AT MOUTH	35.6	9.7	GM & O RR	
	1.8	ROAD S 4,T19N,R 5W		10.3	MENARD-LOGAN CO LN RD	
	2.6	ROAD S 5,T19N,R 5W		11.1	ROAD S32,T19N,R 4W	
	3.8	C & NW RR		12.4	ROAD S 5,T18N,R 4W	
	4.4	ROAD S 9,T19N,R 5W		13.7	ROAD S 8,T18N,R 4W	
	5.9	ROAD S14,T19N,R 5W		14.0	LOGAN-MENARD CO LINE RD	
	7.0	ROAD S23,T19N,R 5W		15.3	GM & O RR	
	7.5	ROAD S24,T19N,R 5W		15.9	ROAD S13,T18N,R 5W	
	8.3	ROAD S25,T19N,R 5W		16.7	TOPOGRAPHIC DIVIDE	

IED SUGAR CR (MOUTH AT SALT CR MILE 11.0)MASON

*	0.0	AT MOUTH NEAR NEW HOLLAND	494.0	24.1	ROAD S10,T21N,R 2W		
	.7	ROAD S26,T20N,R 5W		25.2	PENNSYLVANIA RR		
*	1.2	PRAIRIE CR	383.0	25.8	ROAD S 3,T21N,R 2W		
	1.9	MASON-LOGAN CO LINE RD		27.0	US HWY 136		
	2.7	GM & O RR		27.6	ROAD S36,T22N,R 2W		
	3.2	ROAD S30,T20N,R 4W		28.4	LOGAN-MCLEAN CO LINE RD		
	4.8	ROAD S28,T20N,R 4W		30.1	ROAD S32,T22N,R 1W		
	7.0	ROAD S22,T20N,R 4W		33.3	ROAD S27,T22N,R 1W		
	7.0	ILLINOIS CENTRAL RR	364.0	35.0	ROAD S23,T22N,R 1W		
	7.2	IL RT 10	*	35.5	TIMBER CR		67.3
	8.3	ROAD S14,T20N,R 4W		37.2	ROAD S13,T22N,R 1W		
	9.6	ROAD S12,T20N,R 4W		39.5	ROAD S 7,T22N,R 1E		
	11.2	ROAD S 7,T20N,R 3W		40.6	ROAD S 5,T22N,R 1E		
	13.7	ROAD S 4,T20N,R 3W		41.6	ROAD S33,T23N,R 1E		
	14.9	ILLINOIS CENTRAL RR	*	43.4	BEICH CO DISCHARGE TRIB		43.2
	14.9	IL RT 121		44.2	ROAD S27,T23N,R 1E		
	15.4	ROAD S35,T21N,R 3W		45.3	ROAD S23,T23N,R 1E		
*	15.4	05581500 NEAR HARTSBURG	333.0	47.7	ROAD S13,T23N,R 1E		
	15.9	ROAD S 2,T20N,R 3W	***	48.8	05580950 NR BLOOMINGTON		34.4
	18.6	IL TRACTION SYSTEM RR	*	49.0	GOOSE CREEK		
	18.8	ROAD S30,T21N,R 2W	*	49.0	05580945 ABV SEWAGE PLANT		32.2
	21.5	ROAD S21,T21N,R 2W		49.2	GM & O RR		
	21.5	05581000 NEAR ARMINGTON	314.0	49.5	NY CENTRAL RR		
	22.9	MORGAN BRIDGE		49.6	ILLINOIS TERMINAL RR		
*	22.9	WEST FORK SUGAR CR	126.0	49.7	WEST SLOUGH		
	23.1	ROAD S 9,T21N,R 2W					

	49.7	SKUNK CREEK			52.0	05580760 BELOW FRANKLIN AVE @ NORMAL 9.7
	49.9	IL RT 9			52.6	COUNTRY CLUB BRANCH
*	49.9	05580910 AT MARKET ST AT BLOOMINGTON	21.6		53.9	ILLINOIS CENTRAL RR
	50.0	GRAHAM ST SLOUGH			54.2	ROAD S26,T24N,R 2E
	50.3	NY C & ST L RR			55.6	ILLINOIS CENTRAL RR
	50.3	US HWY 150		*	55.6	05580750,T24N,R 2E 9.1
	51.0	WEST BRANCH SUGAR CR			55.9	ROAD S36,T24N,R 2E
	51.7	05580850 AT NORMAL	15.4		55.9	05580730 6.3
	51.8	MAIN ST			58.6	TOPOGRAHIC DIVIDE
	51.8	NORTH BR SUGAR CR				

IEDB PRAIRIE CR (MOUTH AT SUGAR CR MILE 1.2) MASON

*	0.0	AT MOUTH	110.0		8.6	ROAD S20,T21N,R 4W
	1.8	ROAD S24,T20N,R 5W			9.6	ROAD S21,T21N,R 4W
	2.4	ILLINOIS CENTRAL RR			11.5	ROAD S23,T21N,R 4W
	2.5	MASON-LOGAN CO LINE			11.9	ROAD S14,T21N,R 4W
	2.9	IL RT 10		*	12.6	PRAIRIE CR TRIBUTARY 22.9
	3.5	LOGAN-MASON CO LINE			13.2	ROAD S13,T21N,R 4W
	4.3	ROAD S12,T20N,R 5W			14.3	ROAD S12,T21N,R 4W
	4.9	MASON-LOGAN CO LINE			15.7	ILLINOIS CENTRAL RR
	5.3	ROAD S06 T20N R 5W			15.7	US HWY 136
	6.0	GM&O RR	85.0		15.9	ROAD S36,T22N,R 4W
*	6.2	UNNAMED TRIBUTARY	71.4		17.2	LOGAN-TAZEWELL CO LN RD
	6.6	ROAD S31,T21N,R 4W			18.0	ROAD S30,T22N,R 3W
*	7.3	PRAIRIE CR DITCH	45.6		18.7	ROAD S29,T22N,R 3W
	7.4	ROAD S30,T21N,R 4W			20.6	TOPOGRAPHIC DIVIDE
	7.8	ROAD S29,T21N,R 4W				

IEDBJ PRAIRIE CR DITCH (MOUTH AT PRAIRIE CR MILE 7.3) LOGAN

*	0.0	AT MOUTH	24.9		5.8	IL RT 119
	.4	ROAD S30,T21N,R 4W			6.3	ROAD S32,T22N,R 4W
	1.6	ROAD S19,T21N,R 4W			7.6	ROAD S33,T22N,R 4W
	2.1	ALTON RR			8.1	ROAD S34,T22N,R 4W
	2.8	ROAD S18,T21N,R 4W			8.6	ROAD S27,T22N,R 4W
	4.2	ROAD S 7,T21N,R 4W			9.7	ROAD S26,T22N,R 4W
	4.2	ALTON RR			9.9	ILLINOIS CENTRAL RR
	5.1	ROAD S 6,T21N,R 4W			10.9	ROAD S24,T22N,R 4W

IEDBP PRAIRIE CR TRIBUTARY (MOUTH AT PRAIRIE CR MILE 12.6) LOGAN

*	0.0	AT MOUTH	12.8		4.2	ROAD S16,T21N,R 3W
	.8	ROAD S13,T21N,R 4W			5.3	ROAD S15,T21N,R 3W
	2.1	ROAD S18,T21N,R 3W			6.0	ROAD S14,T21N,R 3W
	3.0	ILLINOIS CENTRAL RR			6.5	ROAD S11,T21N,R 3W
	3.1	IL RT 121			7.0	TOPOGRAPHIC DIVIDE

IEDK WEST FK SUGAR CR (MOUTH AT SUGAR CR MILE 22.9) LOGAN

*	0.0	AT MOUTH NR ARMINGTON	186.0		2.8	ROAD S 4,T21N,R 2W

*	3.8	MIDDLE FK SUGAR CR	78.8	15.4	GM & O RR	
	4.2	LOGAN-TAZEWELL CO LN		16.0	IL RT 122	
	5.5	ROAD S28,T22N,R 2W		17.6	ROAD S13,T23N,R 2W	
*	6.5	WEST FK SUGAR CR TRIB	60.7	18.3	TAZEWELL-MCLEAN CO LN RD	
	7.9	ROAD S17,T22N,R 2W		18.8	ROAD S 7,T23N,R 1W	
	9.3	ROAD S 9,T22N,R 2W		20.6	ROAD S 5,T23N,R 1W	
	9.8	ROAD S 9,T22N,R 2W		21.3	ROAD S 5,T23N,R 1W	
	12.0	ROAD S 3,T22N,R 2W		* 23.1	ROAD S28,T24N,R 1W	8.4
*	12.8	WEST FK SUGAR CR TRIB	31.6	24.2	IL RT 9	
	13.1	ROAD S34,T23N,R 2W		25.9	PENN CENTRAL RR	
	13.6	PENNSYLVANIA RR		26.0	HABECKER BRIDGE	
	13.8	ROAD S27,T23N,R 2W		27.0	ROAD S14,T24N,R 1W	
	13.9	ROAD S27,T23N,R 2W		27.6	ROAD S13,T24N,R 1W	
	14.7	ROAD S26,T23N,R 2W		29.8	TOPOGRAPHIC DIVIDE	

IEDKD MIDDLE FK SUGAR CR (MOUTH AT WEST FK SUGAR CR MILE 3.7) LOGAN

*	0.0	AT MOUTH NR ARMINGTON	93.8	14.7	ROAD S22,T23N,R 1W	
	.9	PENNSYLVANIA RR		15.0	GM & O RR	
	1.4	LOGAN-TAZEWELL CO LN		16.0	ROAD S23,T23N,R 1W	
	1.5	ROAD S34,T22N,R 2W		17.2	ROAD S13,T23N,R 1W	
*	2.6	MIDDLE FK TRIBUTARY	64.7	* 17.3	KINGS MILL CR	10.2
	2.8	ROAD S23,T22N,R 2W		17.8	ROAD S12,T23N,R 1W	
	5.4	ROAD S13,T22N,R 2W		18.8	ROAD S 7,T23N,R 1E	
	7.6	TAZEWELL-MCLEAN CO LN RD		21.2	IL RT 9	
	9.6	ROAD S 6,T22N,R 1W		22.0	ROAD S36,T24N,R 1W	
	10.7	ROAD S32,T23N,R 1W		23.6	ROAD S25,T24N,R 1W	
	12.4	ROAD S26,T23N,R 1W		24.2	ROAD S24,T24N,R 1W	
	14.3	ROAD S27,T23N,R 1W		24.6	TOPOGRAPHIC DIVIDE	

IEDKDS KINGS MILL CR (MOUTH AT MIDDLE FK SUGAR CR MILE 17.3) MCLEAN

*	0.0	AT MOUTH	23.3	8.9	ROAD S22,T24N,R 1E	
	2.6	ROAD S 8,T23N,R 1E		9.5	ROAD S22,T24N,R 1E	
	4.4	ROAD S 9,T23N,R 1E		10.4	INTERSTATE 74	
	5.5	IL RT9		10.6	NORFOLK & WESTERN RR	
	6.5	ROAD S33,T24N,R 1E		10.9	ROAD S14,T24N,R 1E	
	6.8	PENN CENTRAL RR		11.2	US HWY 150	
	6.9	ROAD S28,T24N,R 1E		12.1	ROAD S11,T24N,R 1E	
	7.0	ROAD S28,T24N,R 1E		12.6	TOPOGRAPHIC DIVIDE	

IEDKF WEST FK SUGAR CR TRIB (MOUTH AT WEST FORK SUGAR CR MILE 6.5)TAZEWELL

*	0.0	AT MOUTH	15.8	5.8	ROAD S 1,T22N,R 3W	
	.4	ROAD S20,T22N,R 2W		6.6	ROAD S 2,T22N,R 3W	
	2.3	ILLINOIS TERMINAL RR		7.5	ROAD S11,T22N,R 3W	
	2.7	ROAD S18,T22N,R 2W		8.6	ROAD S10,T22N,R 3W	
	3.8	ROAD S 7,T22N,R 2W		9.5	TOPOGRAPHIC DIVIDE	
	5.0	ROAD S12,T22N,R 3W				

IEDKK WEST FK SUGAR CR TRIB (MOUTH AT WEST FK SUGAR CR MILE 12.8) TAZEWELL

*	0.0	AT MOUTH	13.7	3.9	ROAD S24,T23N,R 2W
	.3	PENNSYLVANIA RR		5.5	IL RT 122
	.3	ROAD S34,T23N,R 2W		5.6	ROAD S18,T23N,R 1W
	.6	ROAD S34,T23N,R 2W		6.8	ROAD S16,T23N,R 1W
	1.0	ROAD S27,T23N,R 2W		8.0	ROAD S16,T23N,R 1W
	1.8	ROAD S26,T23N,R 2W		9.4	ROAD S10,T23N,R 1W
	2.5	ROAD S26,T23N,R 2W		10.6	ROAD S 3,T23N,R 1W
	3.2	GM & O RR		11.4	TOPOGRAPHIC DIVIDE

IEDP TIMBER CR (MOUTH AT SUGAR CR MILE 35.5) MCLEAN

*	0.0	AT MOUTH	36.2	8.7	ROAD S11,T22N,R 1E
	2.9	ROAD S18,T22N,R 1E		11.3	ROAD S36,T23N,R 1E
	4.1	ROAD S17,T22N,R 1E		11.7	ROAD S31,T23N,R 2E
	4.8	GM & O RR		12.1	ROAD S31,T23N,R 2E
	4.8	US HWY 66		13.1	ROAD S29,T23N,R 2E
	5.0	ROAD S16,T22N,R 1E		14.6	US HWY 51
	6.2	ROAD S 9,T22N,R 1E		15.6	TOPOGRAPHIC DIVIDE

IEG KICKAPOO CR (MOUTH AT SALT CR MILE 24.5) LOGAN

*	0.0	AT MOUTH NR LINCOLN	332.0	*	30.7	LONG POINT CR	139.0
	1.3	ROAD S32,T20N,R 3W			31.6	DEWITT-MCLEAN CO LN	
	2.9	ILLINOIS CENTRAL RR			32.4	ROAD S11,T21N,R 1E	
	3.0	IL RT 10			34.1	ROAD S12,T21N,R 1E	
	4.1	INTERSTATE 55			35.9	IL RT 119	
*	6.1	IL RT 121			38.0	KICKAPOO CR TRIB	
	7.1	ILLINOIS CENTRAL RR			38.3	US HWY 51	
	7.5	INTERSTATE 55			38.8	ILLINOIS TERMINAL RR	
	8.1	ILLINOIS TRACTION RR			38.8	ILLINOIS CENTRAL RR	
*	8.3	ROAD S18,T20N,R 2W	306.0	*	39.4	LITTLE KICKAPOO CR	74.5
	8.3	05580500 NR LINCOLN	306.0		41.0	ROAD S23,T22N,R 2E	
	10.2	ROAD S 5,T20N,R 2W			42.0	ROAD S23,T22N,R 2E	
	11.3	ROAD S 5,T20N,R 2W	298.0	*	42.0	05579700 NR HEYWORTH	70.9
	14.0	ROAD S35,T21N,R 2W			44.0	ROAD S13,T22N,R 2E	
	15.4	GM & O RR		*	44.8	LITTLE KICKAPOO CR	49.0
*	15.4	US HWY 66	280.0		46.2	ROAD S 7,T22N,R 3E	
	16.4	ROAD S 1,T20N,R 2W			46.4	ROAD S 6,T22N,R 3E	
*	19.1	ROAD S 4,T20N,R 1W	270.0		47.3	INTERSTATE 74	
	20.4	ROAD S 3,T20N,R 1W			48.0	NY CENTRAL RR	
*	23.3	CLEAR CR	248.0		48.0	ROAD S 5,T22N,R 3E	
	23.5	ROAD S35,T21N,R 1W		*	48.6	US HWY 150	44.0
	24.6	PENNSYLVANIA RR			50.5	ROAD S28,T23N,R 3E	
	24.9	LOGAN-DEWITT CO LN			51.7	ROAD S21,T23N,R 3E	
	26.2	ROAD S19,T21N,R 1E		*	51.9	KICKAPOO CR TRIB	17.0
***	26.2	05580000 AT WAYNESVILLE	227.0		53.0	NY,CHICAGO & ST L RR	
*	26.8	ROCK CR	216.0		53.9	ROAD S16,T23N,R 3E	
*	27.6	PRAIRIE CR	201.0		54.9	ROAD S 9,T23N,R 3E	

*	55.7	ROAD S10,T23N,R 3E	5.5		60.1	ROAD S 5,T23N,R 4E	
	57.4	ROAD S 2,T23N,R 3E			61.8	TOPOGRAPHIC DIVIDE	
	58.5	ROAD S 1,T23N,R 3E					

IEGJ CLEAR CR (MOUTH AT KICKAPOO CR MILE 23.3) LOGAN

*	0.0	AT MOUTH	13.8		4.4	US HWY 66	
	.2	ROAD S35,T21N,R 1W			4.4	GM & O RR	
	1.3	PENNSYLVANIA RR		*	4.5	LOGAN MCLEAN CO LN	6.9
	2.0	ROAD S23,T21N,R 1W			4.9	ROAD S 9,T21N,R 1W	
	2.7	ROAD S23,T21N,R 1W			6.0	ROAD S 8,T21N,R 1W	
	2.8	ROAD S22,T21N,R 1W			7.0	MCLEAN-LOGAN CO LN	
	4.1	ROAD S15,T21N,R 1W			8.3	TOPOGRAPHIC DIVIDE	

IEGL ROCK CR (MOUTH AT KICKAPOO CR MILE 26.8) DEWITT

*	0.0	AT MOUTH	10.4		4.8	ROAD S35,T21N,R 1E	
	1.0	ROAD S21,T21N,R 1E			5.3	ROAD S35,T21N,R 1E	
	1.9	ROAD S21,T21N,R 1E			5.4	ROAD S35,T21N,R 1E	
	2.7	ROAD S22,T21N,R 1E			5.6	ROAD S 2,T20N,R 1E	
*	3.3	ROAD S27,T21N,R 1E	6.2		7.6	TOPOGRAPHIC DIVIDE	
	4.2	ROAD S27,T21N,R 1E					

IEGM PRAIRIE CR (MOUTH AT KICKAPOO CR MILE 27.6) DEWITT

*	0.0	AT MOUTH	14.6	*	6.1	ROAD S28,T22N,R 1E	4.5
	.6	ROAD S17,T21N,R 1E			7.7	ROAD S26,T22N,R 1E	
	1.2	DEWITT-MCLEAN CO LN			9.4	ROAD S14 T22N R01E	
	1.8	ROAD S 8,T21N,R 1E			9.9	TOPOGRAPHIC DIVIDE	
*	3.6	IL RT 119	11.2				

IEGN LONG POINT CR (MOUTH AT KICKAPOO CR MILE 30.7) DEWITT

*	0.0	AT MOUTH	51.3		9.5	ILLINOIS CENTRAL RR	
	.2	ROAD S15,T21N,R 1E			10.5	ROAD S22,T21N,R 2E	
	1.6	ROAD S23,T21N,R 1E			10.5	ROAD S15,T21N,R 2E	
	2.5	ROAD S24,T21N,R 1E			11.4	ROAD S14,T21N,R 2E	
	3.5	ROAD S19,T21N,R 2E			11.7	ROAD S14,T21N,R 2E	
	4.7	ROAD S19,T21N,R 2E			12.3	ROAD S14,T21N,R 2E	
	7.0	ROAD S20,T21N,R 2E	45.0		12.7	DEWITT-MCLEAN CO LN RD	
*	7.1	UNNAMED TRIBUTARY	24.8		14.4	ROAD S12,T21N,R 2E	
	8.8	US HWY 51			14.9	ROAD S 7,T21N,R 2E	
	9.5	ILLINOIS TERMINAL RR			17.4	TOPOGRAPHIC DIVIDE	

IEGR LITTLE KICKAPOO CR (MOUTH AT KICKAPOO CR MILE 39.4) MCLEAN

*	0.0	AT MOUTH	29.7	*	4.8	ROAD S11,T22N,R 2E	21.6
	.9	ROAD S22,T22N,R 2E			6.1	ROAD S 2,T22N,R 2E	
	2.2	ROAD S15,T22N,R 2E		*	7.8	ROAD S27,T23N,R 2E	15.1
	2.7	ROAD S15,T22N,R 2E					

	9.9	ROAD S27,T23N,R 2E			11.7	US HWY 150	
	10.8	ROAD S22,T23N,R 2E			12.2	NY CHICAGO & ST L RR	
	10.9	ROAD S22,T23N,R 2E		*	12.8	ROAD S14,T23N,R 2E	5.5
	10.9	NY CENTRAL RR			13.4	ROAD S11,T23N,R 2E	
	11.2	ROAD S23,T23N,R 2E			15.9	TOPOGRAPHIC DIVIDE	

IEGT LITTLE KICKAPOO CR (MOUTH AT KICKAPOO CR MILE 44.8)MCLEAN

*	0.0	AT MOUTH	12.1		4.1	US HWY 150	
	.7	ROAD S 7,T22N,R 3E			5.8	ROAD S 1,T22N,R 3E	
	2.0	ROAD S 8,T22N,R 3E			6.7	ROAD S 1,T22N,R 3E	
	2.6	ROAD S 4,T22N,R 3E			8.5	ROAD S 6,T22N,R 4E	
	3.6	NY CENTRAL RR			9.6	TOPOGRAPHIC DIVIDE	

IEGW KICKAPOO CR TRIB (MOUTH AT KICKAPOO CR MILE 51.9) MCLEAN

*	0.0	AT MOUTH	18.1	*	4.5	ROAD S13,T23N,R 3E	10.1
	1.2	ROAD S15,T23N,R 3E			6.9	ROAD S17,T23N,R 4E	
	2.4	ROAD S14,T23N,R 3E			7.5	ROAD S20,T23N,R 4E	
	4.0	ROAD S13,T23N,R 3E			8.6	ROAD S28,T23N,R 4E	
	4.2	ROAD S24,T23N,R 3E			9.9	TOPOGRAPHIC DIVIDE	

IEH DEER CR (MOUTH AT SALT CR MILE 29.3) LOGAN

*	0.0	AT MOUTH	80.9		11.3	ROAD S20,T20N,R 1W	
*	1.2	SALT SPRING BRANCH	65.5		11.6	ROAD S17,T20N,R 1W	
	1.2	ROAD S 7,T19N,R 2W			12.1	ROAD S16,T20N,R 1W	14.3
	2.9	IL RT 121			13.6	ROAD S10,T20N,R 1W	
	2.9	ILLINOIS CENTRAL RR			14.7	ROAD S11,T20N,R 1W	
	5.8	ROAD S 3,T19N,R 2W			16.4	LOGAN-DEWITT CO LN RD	
*	6.6	ROAD S 2,T19N,R 2W	49.0		17.1	PENNSYLVANIA RR	
	7.6	ILLINOIS CENTRAL RR			17.7	ROAD S 7,T20N,R 1E	
	8.2	IL RT 10			18.5	ROAD S 8,T20N,R 1E	
	8.6	ROAD S25,T20N,R 2W			19.5	TOPOGRAPHIC DIVIDE	

IEI LAKE FORK (MOUTH AT SALT CR MILE 32.6) LOGAN

*	0.0	AT MOUTH NR LINCOLN	277.0		12.9	US HWY 54	
	.7	ROAD S22,T19N,R 3W		***	12.9	05579500 NR CORNLAND	214.0
	2.5	ROAD S33,T19N,R 3W			14.2	ROAD S 7,T17N,R 2W	192.0
*	3.1	ELKHART CR	251.0		15.3	ROAD S 8,T17N,R 2W	
	5.8	ROAD S10,T18N,R 3W			16.1	ROAD S 8,T17N,R 2W	
	7.6	ROAD S22,T18N,R 3W		*	16.4	HUNTER SLOUGH	167.0
	8.2	ROAD S23,T18N,R 3W			17.1	ROAD S 9,T17N,R 2W	
*	9.5	ROAD S25,T18N,R 3W	224.0		18.2	ROAD S10,T17N,R 2W	
	10.6	ROAD S35,T18N,R 3W			19.3	ROAD S11,T17N,R 2W	
	12.8	ROAD S 2,T17N,R 3W		*	19.5	ROAD S12,T17N,R 2W	159.5
	12.9	ILLINOIS CENTRAL RR			20.8	ROAD S 7,T17N,R 1W	

IEI NORTH FK (HEAD OF LAKE FORK, MILE 21.6)

*	21.6	SOUTH FK	85.9		36.3	ROAD S10,T18N,R 1E	
	22.3	ROAD S 8,T17N,R 1W			38.2	ROAD S12,T18N,R 1E	
	23.5	ROAD S 5,T17N,R 1W		*	39.6	ROAD S 7,T18N,R 2E	19.7
	24.1	ROAD S32,T18N,R 1W			40.7	ROAD S 6,T18N,R 2E	
*	25.2	ILLINOIS CENTRAL RR	74.6		41.9	ROAD S 5,T18N,R 2E	
	25.2	IL RT 121			42.3	ROAD S 4,T18N,R 2E	
	26.7	ROAD S27,T18N,R 1W			43.1	ROAD S 9,T18N,R 2E	
*	28.3	ROAD S23,T18N,R 1W	60.1		44.1	PENNSYLVANIA RR	
	29.7	ROAD S13,T18N,R 1W		*	44.6	US HWY 51	9.5
*	30.7	ROAD S12,T18N,R 1W	52.7		44.7	ILLINOIS CENTRAL RR	
	31.2	LOGAN-MACON CO LN			45.3	ROAD S 2,T18N,R 2E	
	31.9	ROAD S 6,T18N,R 1E			46.2	ROAD S35,T19N,R 2E	
	32.4	ROAD S 6,T18N,R 1E			46.5	ROAD S35,T19N,R 2E	
*	32.6	NORTH FK TRIB	25.8		47.9	ROAD S25,T19N,R 2E	
	33.7	ROAD S 4,T18N,R 1E			49.6	TOPOGRAHIC DIVIDE	
	35.1	ROAD S 9,T18N,R 1E					

IEII HUNTER SLOUGH (MOUTH AT LAKE FK MILE 16.4) LOGAN

*	0.0	AT MOUTH	19.9		3.9	ROAD S28,T17N,R 2W	
	.7	ROAD S16,T17N,R 2W			4.3	ROAD S28,T17N,R 2W	
	1.1	ROAD S17,T17N,R 2W			5.4	ROAD S27,T17N,R 2W	
	1.7	LOGAN-SANGAMON CO LN			6.5	ROAD S26,T17N,R 2W	
	3.1	ROAD S20,T17N,R 2W			7.6	TOPOGRPAHIC DIVIDE	

IEIL SOUTH FK (MOUTH AT LAKE FK MILE 21.6) LOGAN

*	0.0	ABOVE CONFLUENCE WITH NORTH FORK	65.9		7.9	ROAD S 5,T17N,R 1E	
	1.0	ROAD S17,T17N,R 1W			8.7	ROAD S32,T18N,R 1E	
	1.9	ROAD S16,T17N,R 1W			9.7	ROAD S33,T18N,R 1E	12.9
	2.9	ROAD S15,T17N,R 1W			10.6	ROAD S34,T18N,R 1E	
	3.9	ROAD S11,T17N,R 1W			11.0	ROAD S27,T18N,R 1E	
	4.7	ROAD S11,T17N,R 1W			11.8	ROAD S26,T18N,R 1E	
	6.0	ROAD S12,T17N,R 1W			12.8	ROAD S36,T18N,R 2E	
	6.9	ILLINOIS CENTRAL RR			14.1	ROAD S31,T18N,R 2E	
*	6.9	IL RT 121	37.2		16.4	TOPOGRAPHIC DIVIDE	
	6.9	UNNAMED TRIB	26.1				
	7.3	ROAD S 6,T17N,R 1E					

IEIQ NORTH FK TRIB (MOUTH AT LAKE FORK MILE 32.6) MACON

*	0.0	AT MOUTH	18.5		4.9	PENNSYLVANIA RR	
	.7	MACON-DEWITT CO LN RD			5.4	ROAD S23,T19N,R 1E	
	2.9	ROAD S28,T19N,R 1E			6.1	ROAD S24,T19N,R 1E	
	3.6	ROAD S27,T19N,R 1E			7.1	TOPOGRAPHIC DIVIDE	

IEJ SALT CR TRIB (MOUTH AT SALT CR MILE 37.2) LOGAN

*	0.0	AT MOUTH	14.9	3.8	ROAD S 9,T18N,R 2W	
	.5	ROAD S 5,T18N,R 2W	*	4.4	ILLINOIS CENTRAL RR	5.1
	.8	ROAD S 6,T18N,R 2W		4.9	ROAD S10,T18N,R 2W	
	1.0	ROAD S 6,T18N,R 2W		5.4	IL RT 121	
	1.5	ROAD S 5,T18N,R 2W		6.6	ROAD S12,T18N,R 2W	
	2.2	ROAD S 5,T18N,R 2W		7.1	ROAD S12,T18N,R 2W	
	2.7	ROAD S 8,T18N,R 2W		7.9	TOPOGRAPHIC DIVIDE	

IEP TEN MILE CR (MOUTH AT SALT CREEK MILE 62.7) DEWITT

*	0.0	AT MOUTH	41.9	8.3	ROAD S27,T20N,R 2E	
	.4	ROAD S11,T1.N,R 1E		9.0	ROAD S27,T20N,R 2E	
	1.4	ROAD S 2,T19N,R 1E		11.0	ROAD S28,T20N,R 2E	
	3.0	ROAD S36,T20N,R 1E		11.7	US HWY 51	
	3.7	ROAD S31,T20N,R 2E		11.8	ILLINOIS CENTRAL RR	
	4.7	ROAD S32,T20N,R 2E		12.7	ROAD S14,T20N,R 2E	
	5.6	ILLINOIS CENTRAL RR	*	13.8	ROAD S11,T20N,R 2E	9.3
	5.7	IL RT 10		15.1	ROAD S12,T20N,R 2E	
	7.0	ROAD S34,T20N,R 2E		16.2	ROAD S 6,T20N,R 3E	
	7.4	ROAD S27,T20N,R 2E		17.1	ROAD S31,T21N,R 3E	
	7.7	ROAD S27,T20N,R 2E		17.7	ROAD S32,T21N,R 3E	
*	8.0	ROAD S27,T20N,R 2E	23.6	19.4	TOPOGRAPHIC DIVIDE	

IEQ COON CR (MOUTH AT SALT CR MILE 65.9) DEWITT

*	0.0	AT MOUTH	18.9	6.9	ROAD S35,T20N,R 2E	
	.1	ROAD S17,T19N,R 2E		7.5	ROAD S36,T20N,R 2E	
	1.8	ROAD S 8,T19N,R 2E	*	7.6	ROAD S25,T20N,R 2E	6.4
	4.7	US HWY 51		8.8	US HWY 54	
	5.4	ILLINOIS CENTRAL RR		9.3	ILLINOIS CENTRAL RR	
	5.6	ROAD S34,T20N,R 2E		9.8	ROAD S29,T20N,R 3E	
	5.7	ILLINOIS CENTRAL RR		12.0	ROAD S17,T20N,R 3E	
*	5.8	US HWY 54	12.2	13.7	TOPOGRAPHIC DIVIDE	
	5.9	ROAD S35,T20N,R 2E				

IES NORTH FK SALT CR (MOUTH AT SALT CR MILE 76.7) DEWITT

*	0.0	AT MOUTH	126.5	18.1	US HWY 136	
	1.9	ROAD S28,T20N,R 3E	*	18.6	WEST FK	39.5
	5.3	US HWY 54		18.9	ROAD S33,T22N,R 4E	
	5.3	ILLINOIS CENTRAL RR		20.1	NY CENTRAL RR	
*	6.1	ROAD S15,T20N,R 3E	117.0	20.8	US HWY 150	
	9.1	ROAD S 2,T20N,R 3E		21.8	ILLINOIS CENTRAL RR	
	12.1	ROAD S30,T21N,R 4E	95.9	22.4	ROAD S22,T22N,R 4E	
	13.6	ROAD S19,T21N,R 4E	*	23.1	UNNAMED TRIBUTARY	21.7
	15.0	DEWITT-MCLEAN CO LN RD	*	23.7	NORTH FK TRIB	7.0
*	16.5	UNNAMED TRIBUTARY	65.8	24.4	ROAD S11,T22N,R 4E	
	17.3	ROAD S 5,T21N,R 4E				

	25.3	ROAD S 2,T22N,R 4E			28.5	ROAD S26,T23N,R 4E	
	26.4	ROAD S 2,T22N,R 4E			29.4	ROAD S27,T23N,R 4E	
	26.7	ROAD S 2,T22N,R 4E			31.0	ROAD S22,T23N,R 4E	
*	27.0	DAWSON LAKE DAM	4.5		31.6	TOPOGRAPHIC DIVIDE	

IESQ WEST FK (MOUTH AT NORTH FK SALT CR MILE 18.6) MCLEAN

*	0.0	AT MOUTH	22.6		6.5	ROAD S26,T22N,R 3E	
	.6	ROAD S33,T22N,R 4E			7.1	ROAD S27,T22N,R 3E	
	2.0	ROAD S30,T22N,R 4E			8.5	ROAD S23,T22N,R 3E	
	3.4	ROAD S30,T22N,R 4E			9.5	TOPOGRAPHIC DIVIDE	
	4.9	ROAD S25,T22N,R 3E	11.5				

IESV NORTH FK TRIB (MOUTH AT NORTH FK SALT CR MILE 23.7)

*	0.0	AT MOUTH	14.2		5.5	ROAD S 4,T22N,R 5E	
	.1	ROAD S14,T22N,R 4E			6.6	ROAD S33,T23N,R 5E	
*	2.9	ROAD S 7,T22N,R 5E	6.1		6.8	TOPOGRAPHIC DIVIDE	
	3.9	ROAD S 8,T22N,R 5E					

IEW TRENKLE SLOUGH (MOUTH AT SALT CREEK MILE 97.8) DEWITT

*	0.0	AT MOUTH	35.9	*	4.6	ROAD S25,T21N,R 5E		9.7
	.7	ROAD S33,T21N,R 5E			5.6	ROAD S30,T21N,R 6E		
	2.0	DEWITT-PIATT CO LN			5.8	ROAD S19,T21N,R 6E		
	2.5	ROAD S35,T21N,R 5E			6.8	ROAD S20,T21N,R 6E		
	2.7	NY CENTRAL RR			7.9	ROAD S21,T21N,R 6E		
*	2.7	US HWY 150	22.1		8.5	ROAD S21,T21N,R 6E		
	3.6	ROAD S26,T21N,R 5E			8.7	TOPOGRAPHIC DIVIDE		

IEX SALT CR TRIB (MOUTH AT SALT CR MILE 98.8) DEWITT

*	0.0	AT MOUTH	17.5		2.7	ROAD S15,T21N,R 5E	
	.1	US HWY 54			3.6	DEWITT-MCLEAN CO LN RD	
	1.1	ROAD S21,T21N,R 5E			5.0	ROAD S 8,T21N,R 5E	
	1.7	ILLINOIS CENTRAL RR			5.1	ROAD S 8,T21N,R 5E	
	2.0	ROAD S22,T21N,R 5E			6.4	TOPOGRAPHIC DIVIDE	

IE6 CONCORD CREEK (MOUTH AT SANGAMON RIVER MILE 41.6) MENARD

*	0.0	AT MOUTH	13.6		5.5	ROAD S03,T18N,R07W	
	1.1	ROAD S23,T19N,R07W			6.7	IL RT 97	
	1.7	ROAD S23,T19N,R07W			6.7	C&IM RR	
	2.6	ROAD S22,T19N,R07W			7.2	ROAD S04,T18N,R07W	
	4.1	ROAD S27,T19N,R07W			8.8	ROAD S10 T18N R07W	
	4.7	ROAD S34,T19N,R07W			9.5	TOPOGRAPHIC DIVIDE	
	5.1	ROAD S34,T19W,R07W					

IF INDIAN CREEK (MOUTH AT SANGAMON RIVER MILE 44.5) MENARD

*	0.0	AT MOUTH	18.9	5.7	ROAD S21,T18N,R06W	
	2.1	ROAD S07,T18N,R06W		9.2	TOPOGRAPHIC DIVIDE	
	3.7	IL RT 123				

IF8 ROCK CREEK (MOUTH AT SANGAMON RIVER MILE 54.9) MENARD

*	0.0	AT MOUTH	17.5	7.9	ROAD S15,T17N,R07W	
	.8	ROAD S04,T17N,R06W		8.6	ROAD S15,T17N,R07W	
	1.6	ROAD S09,T17N,R06W		9.5	ROAD S16,T17N,R07W	
	3.1	ROAD S08,T17N,R06W		10.6	ROAD S17,T17N,R07W	
	4.6	ROAD S18,T17N,R06W		11.5	ROAD S18,T17N,R07W	
	5.8	IL RT 97		12.5	TOPOGRAPHIC DIVIDE	
	6.7	ROAD S14,T17N,R07W				

IG RICHLAND CREEK (MOUTH AT SANGAMON RIVER MILE 59.2) SANGAMON

*	0.0	AT MOUTH NR SALISBURY	89.7	10.9	ROAD S34,T17N,R07W	
	3.8	ROAD S28,T17N,R06W		14.2	IL RT 125	
*	4.4	PRAIRIE CREEK	44.3	14.2	B&O RR	
	5.8	IL RT 97		* 14.2	ROAD S05,T16N,R07W	17.2
*	5.8	05577800 AT SALISBURY	42.9	14.9	ROAD S06,T16N,R07W	
	6.5	ROAD S32,T17N,R06W		16.5	ROAD S36,T17N,R08W	
	8.3	ROAD S36,T17N,R07W		17.7	ROAD S02,T16N,R08W	
	10.3	ROAD S35,T17N,R07W		18.7	TOPOGRAPHIC DIVIDE	

IGG PRAIRIE CREEK (MOUTH AT RICHLAND CREEK MILE 4.4) SANGAMON

*	0.0	AT MOUTH NR SALISBURY	40.7	7.3	ROAD S24,T16N,R07W	
	2.5	ROAD S09,T16N,R06W		9.1	ROAD S23,T16N,R07W	
	2.5	05577850 NR SALISBURY	39.0	10.7	ROAD S21,T16N,R07W	14.6
	4.1	ROAD S09,T16N,R06W		11.6	ROAD S28,T16N,R07W	
	4.8	IL RT 97		12.7	ROAD S30,T16N,R07W	
	6.1	ROAD S17,T16N,R06W		14.0	ROAD S25,T16N,R07W	
	7.2	ROAD S18,T16N,R06W		16.9	TOPOGRAPHIC DIVIDE	
	7.3	B&O RR				

IG3 CANTRALL CREEK (MOUTH AT SANGAMON RIVER MILE 63.2) SANGAMON

*	0.0	AT MOUTH	20.8	8.1	ROAD S16,T17N,R05W	
	1.2	ROAD S26,T17N,R06W		8.4	C&IM RR	
	2.7	ROAD S31 T17N R05W	18.8	9.0	ROAD S09 T17N R05W	5.1
	3.0	C&NW RR		9.6	ROAD S09,T17N,R05W	
	4.3	ROAD S29,T17N,R05W		11.1	IL RT 124	
	5.1	ROAD S29,T17N,R05W		11.5	ROAD S33,T18N,R05W	
	5.6	IL RT 29		12.3	ROAD S32,T18N,R05W	
	6.7	ROAD S21,T17N,R05W		13.1	TOPOGRAPHIC DIVIDE	

IH SPRING CREEK (MOUTH AT SANGAMON RIVER MILE 75.0) SANGAMON

*	0.0	AT MOUTH NR SPRINGFIELD	125.0		18.6	ROAD S32,T16N,R06W	
	.9	SPRING CREEK TRIBUTARY			18.6	05577480 NR FARMINGDALE	61.1
	2.0	ROAD S10,T16N,R05W		*	19.4	LITTLE SPRING CREEK	43.9
	2.0	05577515 NR SPRINGFIELD	120.0		20.1	ROAD S31,T16N,R06W	
	4.1	ROAD S16,T16N,R05W			22.2	ROAD S34,T16N,R07W	
	5.2	IL RT 29			24.0	ROAD S33,T16N,R07W	
	5.6	ROAD S21,T16N,R05W			24.2	ROAD S33,T16N,R07W	
	5.9	LINCOLN AVE			25.6	ROAD S05,T15N,R07W	
	6.7	BURNS RD			26.6	ROAD S06,T15N,R07W	
	6.7	B&O RR			27.8	ROAD S01,T15N,R08W	22.5
***	8.2	05577500 AT SPRINGFIELD	107.0		28.6	ROAD S12,T15N,R08W	
	8.2	IL RT 97			29.0	ROAD S12,T15N,R0,W	
*	8.3	JACKSONVILLE BRANCH	96.4		30.8	ROAD S14,T15N,R08W	
	9.1	C&NWRR			31.6	ROAD S15,T15N,R08W	
	9.3	05577490 NR BRADFORTON	93.9		32.0	ROAD S15,T15N,R08W	
	9.3	ROAD S25,T16N,R06W			32.2	SANGAMON-MORGAN CO LN	
	11.9	ROAD S26,T16N,R06W			32.3	ROAD S16,T15N,R08W	
	14.3	COVERED BRIDGE			33.4	US HWY 36	
*	16.2	ARCHER CREEK	64.3		33.5	WABASH RR	
	17.9	ROAD S32,T16N,R06W			37.8	TOPOGRAPHIC DIVIDE	

IHG JACKSONVILLE BRANCH (MOUTH AT SPRING CREEK MILE 8.3) SANGAMON

*	0.0	AT MOUTH	11.4	2.9	ROAD S05,T15N,R05W	
	.6	ROAD S30,T16N,R05W		3.1	ROAD S05,T15N,R05W	
	.6	0557495 AT SPRINGFIELD	11.3	3.2	ROAD S05,T15N,R05W	
	1.3	WASHINGTON ST		3.7	ILES AVE	
	1.4	IL RT 4		3.9	IL RT 4	
	1.9	LAWRENCE AVE		4.5	IL RT 54	
	2.1	FAYETTE AVE		5.4	IL RT 54	
	2.2	ROAD S32,T16N,R05W		5.5	ROAD S12,T15N,R06W	
	2.3	WIGGINS AVE		6.8	TOPOGRAPHIC DIVIDE	

IHL ARCHER CREEK (MOUTH AT SPRING CREEK MILE 16.2) SANGAMON

*	0.0	AT MOUTH	20.0	7.1	ROAD S18,T15N,R06W	
	.7	ROAD S33,T16N,R06W		8.6	ROAD S23,T15N,R07W	
	1.7	ROAD S04,T15N,R06W		9.5	US HWY 36	
	3.0	ROAD S04,T15N,R06W		9.5	WABASH RR	
	4.2	ROAD S08,T15N,R06W		10.9	TOPOGRAPHIC DIVIDE	
	5.3	ROAD S07,T15N,R06W				

IHN LITTLE SPRING CREEK (MTH @ SPRING CREEK MILE 19.4) SANGAMON

*	0.0	AT MOUTH	17.1	3.9	ROAD S11,T15N,R07W	
	1.1	ROAD S06,T15N,R06W		4.4	ROAD S15,T15N,R07W	
	1.5	ROAD S06,T15N,R06W		5.6	ROAD S16,T15N,R07W	
	2.6	ROAD S01,T15N,R07W				

	5.9	ROAD S16,T15N,R07W		7.8	WABASH RR	
	6.6	ROAD S22,T15N,R07W		8.9	ROAD S28,T15N,R07W	
	7.6	US HWY 36		10.3	TOPOGRAPHIC DIVIDE	

IH7 FANCY CREEK (MOUTH AT SANGAMON RIVER MILE 79.5) SANGAMON

*	0.0	AT MOUTH	39.1	6.6	GM&O RR	
	2.7	ROAD S30 T17N R04W	38.5	9.0	IL RT 124	14.7
	4.4	ROAD S19,T17N,R04W		9.1	ROAD S12,T17N,R05W	
	4.7	GM&O RR		10.4	IL RT 124	
	4.8	US HWY 66		11.5	SANGAMON-MENARD CO LN	
	4.9	INTERSTATE 55		12.7	ROAD S27,T18N,R05W	
	4.9	ROAD S19,T17N,R04W		15.8	TOPOGRAPHIC DIVIDE	
*	5.6	FANCY CREEK TRIBUTARY	20.7			

IH7J FANCY CREEK TRIBUTARY (MTH @ FA CY CREEK MILE 5.6) SANGAMON

*	0.0	AT MOUTH	13.5	5.4	ROAD S29,T18N,R04W	
	.8	ROAD S18,T17N,R04W		5.5	LOGAN-MENARD CO LN RD	
	2.1	ROAD S08,T17N,R04W		6.0	ROAD S19,T18N,R04W	
	3.2	IL RT 124		6.7	TOPOGRAPHIC DIVIDE	
	4.3	SANGAMON-LOGAN CO LN RD				

II WOLF CREEK (MOUTH AT SANGAMON RIVER MILE 81.2) SANGAMON

*	0.0	AT MOUTH	61.7	10.2	ROAD S02,T17N,R04W	
	2.0	ROAD S04,T16N,R04W		10.8	ROAD S35,T17N,R04W	
*	2.5	WOLF CREEK TRIBUTARY	39.2	11.5	ROAD S34,T18N,R04W	
	2.9	ROAD S34,T17N,R04W		11.5	SANGAMON-LOGAN CO LN	
	4.9	ROAD S26 T17N R04W	36.6	11.5	GM&O RR	5.8
	5.4	ROAD S26,T17N,R04W		11.6	US HWY 66	
	6.1	ROAD S23,T17N,R04W	26.3	12.8	ROAD S27,T18N,R04W	
	8.4	ROAD S10,T17N,R04W		13.0	ROAD S28,T18N,R04W	
	9.5	ROAD S03,T17N,R04W		16.0	TOPOGRAPHIC DIVIDE	

IIE WOLF CREEK TRIBUTARY(MTH @ WOLF CREEK MILE 2.5) SANGAMON

*	0.0	AT MOUTH	14.6	3.6	ROAD S31,T17N,R04W	
	.9	ROAD S35,T17N,R04W		5.2	ROAD S29,T17N,R04W	
	1.5	ROAD S35,T17N,R04W		6.7	ROAD S28,T17N,R04W	
	2.7	IC RR		7.5	TOPOGRAPHIC DIVIDE	
	2.7	US HWY 54				

IJ SUGAR CREEK (MOUTH AT SANGAMON RIVER MILE 86.9) SANGAMON

*	0.0	AT MOUTH NR CLEAR LAKE	283.0	5.7	B&O RR	
	1.5	ROAD S28,T16N,R04W	***	8.4	SPAULDING DAM	
	3.1	CLEAR LAKE AVE		8.4	05576205 @ LK SPRINGFLD	263.0
	5.5	IL RT 29		8.4	US HWY 66	

	10.9	LINDSAY BRIDGE			37.4	ROAD S28,T13N,R06W	
	14.1	IC RR			38.6	ROAD S32,T28,R06W	
	14.8	INTERSTATE 55			39.2	C&NW RR	
*	14.9	LICK CREEK	100.0		39.2	SANGAMON-MACOUPIN CO LN	
	17.0	GLASSER BRIDGE		*	39.8	C&NW RR	29.4
*	19.6	PANTHER CREEK	67.6		39.9	CB&Q RR	
	20.4	COVERED BRIDGE	63.9		40.2	ROAD S06,T12N,R06W	
	22.2	ROAD S28,T14N,R05W			40.9	ROAD S06,T12N,R06W	
	25.0	ROAD S32,T14N,R05W			41.9	NINEMILE LANE	
	27.9	ROAD S01,T13N,R06W			43.3	ROAD S14,T12N,R07W	
	29.8	ROAD S01,T13N,R06W			44.5	NINEMILE LANE	
*	30.3	IL RT 104	49.1		45.0	ROAD S10,T12N,R07W	
	31.7	ROAD S12,T13N,R06W			45.7	ROAD S03,T12N,R07W	
	33.7	ROAD S14,T13N,R06W			46.2	MACOUPIN-SANGAMON CO LN	
	34.2	ROAD S22,T13W,R06W			48.2	ROAD S28,T13N,R07W	
	35.1	C&A RR			48.9	ROAD S29,T13N,R07W	
	35.2	ILLINOIS TRACTION RR			49.5	ROAD S29,T13N,R07W	
	35.8	ROAD S22,T13N,R06W			50.2	ROAD S29,T13N,R07W	
	36.9	IL RT 4			51.1	TOPOGRAPHIC DIVIDE	

IJH LICK CREEK (MOUTH AT SUGAR CREEK MILE 14.9) SANGAMON

*	0.0	AT MOUTH	145.0	*	16.9	SOUTH FORK	32.4
	2.2	WOODSIDE BRIDGE			18.5	ROAD S14,T14N,R07W	
	2.5	GM&O RR			20.5	ROAD, S15,T14N,R07W	
*	2.6	POLECAT CREEK	128.0		21.2	ROAD S09,T14N,R07W	
	4.1	IL RT 4	126.0		22.5	ROAD, S17,T14N,R07W	
	7.2	ROAD S35,T15N,R06W			24.2	ROAD S07,T14N,R07W	
	9.4	C&NW RR			25.5	ROAD, S11,T14N,R08W	
	9.5	ROAD S34,T15N,R06W			26.5	SANGAMON-MORGAN CO LN	
	10.5	ROAD S04,T14N,R06W			26.8	C&A RR	
	13.7	ROAD S05,T14N,R06W			27.4	ROAD S10 T14N R 8W	
	14.8	ROAD S07,T14N,R06W			28.4	ROAD S16,T14N,R08W	
	15.7	ROAD S07,T14N,R06W			30.8	TOPOGRAPHIC DIVIDE	
	16.7	ROAD S18,T14N,R06W					

IJHO SOUTH FORK LICK CREEK (MOUTH AT LICK CREEK MILE 16.5) SANGAMON

*	0.0	AT MOUTH	50.1		7.9	ROAD S06,T13N,R07W	
	1.2	ROAD S24,T14N,R07W			9.1	ROAD S31,T14N,R07W	
	2.6	ROAD S26,T14N,R07W		*	9.3	CP&SL RR	13.6
*	3.6	JOHNS CREEK	28.2		10.1	ROAD S31,T14N,R07W	
	4.1	ROAD S34,T14N,R07W			11.1	ROAD S36,T14N,R08W	
	4.7	ROAD S34,T14N,R07W			12.1	SANGAMON-MORGAN CO LINE	
	5.3	ROAD S33,T14N,R07W			12.8	ROAD S26,T14N,R08W	
	6.3	ROAD S04,T13N,R07W			14.0	ROAD S27,T14N,R07W	
	6.5	ROAD S05,T13N,R07W			14.5	TOPOGRAPHIC DIVIDE	

IJHOG JOHNS CREEK(MOUTH AT SOUTH FORK RIVER MILE 3.6) SANGAMON

*	0.0	AT MOUTH	14.5		1.2	ROAD S35,T14N,R07W	
	.6	ROAD S35,T14N,R07W					

	1.8	ROAD S01,T13N,R07W			4.8	ROAD S14,T13N,R07W	
	2.3	ROAD S01,T13N,R07W			6.0	ROAD S15,T13N,R07W	
	3.5	IL RT 104			6.3	CB&Q RR	
	4.1	ROAD S14,T13N,R07W			7.1	TOPOGRAPHIC DIVIDE	

IJK PANTHER CREEK (MOUTH AT SUGAR CREEK MILE 19.6) SANGAMON

*	0.0	AT MOUTH	22.7	*	7.2	IL RT 4	
	1.5	ROAD S20,T14N,R05W			8.1	ROAD S03 T13N R06W	
	1.7	ROAD S20,T14N,R05W			8.4	ROAD S03,T13N,R06W	
	2.3	ROAD S30,T14N,R05W			9.6	IL RT 104	
	2.8	ROAD S30,T14N,R05W			10.2	C&IM RR	
	3.4	ROAD S19,T14N,R05W			11.4	C&NW RR	
	4.8	ROAD S25,T14N,R05W			12.3	ROAD S20,T13N,R06W	
	5.2	GM&O RR			13.5	ROAD S19,T13N,R06W	
	5.7	IL RT 4			14.5	TOPOGRAPHIC DIVIDE	
	6.7	ROAD S34,T14N,R06W					

IK SOUTH FORK SANGAMON RIVER (MOUTH AT SANGAMON RIVER MILE 86.9)SANGAMO

*	0.0	AT MOUTH NR CLEAR LAKE	883.0		51.1	WABASH RR	
	1.0	CLEAR LAKE AVE			51.1	05575000 NR TAYLORVILLE	434.0
	2.5	ROAD S04,T15N,R04W			54.0	ROAD S03,T12N,R02W	
*	3.0	BLACK BRANCH	870.0		55.4	ROAD S34,T13N,R02W	
	3.6	B&O RR		***	57.3	FLAT BRANCH	132.0
	5.0	IL RT 29			58.9	ROAD S36,T13N,R02W	
	5.0	05576022 BLW ROCHESTER	870.0	***	59.0	LAKE TAYLORVILLE DAM	125.0
	5.0	B&O RR		*	63.1	LOCUST CREEK	87.3
	6.3	ROAD S17,T15N,R04W			63.5	ROAD S13,T13N,R 2W	
***	7.4	05576000 NR ROCHESTER	865.0		64.1	ROAD S24,T13N,R 2W	
*	7.4	HORSE CREEK	734.0		66.3	ROAD S27,T13N,R 2W	
	8.8	ROAD S20,T15N,R04W			68.0	ROAD S33,T12N,R 2W	
	14.5	ROAD S04,T14N,R04W			69.9	ROAD S03,T11N,R02W	
	17.9	ROAD S02,T14N,R04W		*	71.2	COTTON CREEK	45.4
	20.8	ROAD S11,T14N,R04W			71.9	ROAD S09,T11N,R02W	
	21.8	SANGAMON-CHRISTIAN CO			73.5	ROAD S16,T11N,R02W	
	22.9	CHRISTIAN-SANGAMON CO			73.6	ROAD S17,T11N,R02W	
*	23.8	CLEAR CREEK	627.0		74.6	ROAD S20,T11N,R02W	
	25.5	SANGAMON-CHRISTIAN CO			76.3	ROAD S28,T11N,R02W	
	28.2	ROAD S16,T14N,R03W			76.6	ROAD S28,T11N,R02W	
	32.0	ROAD S27,T14N,R03W			76.7	ROAD S27,T11N,R02W	
	36.2	ROAD S34,T14N,R03W			77.3	ROAD S27,T11N,R02W	
*	37.1	SOUTH FORK TRIBUTARY	564.0		77.6	ROAD S27,T11N,R02W	
	37.7	ROAD S03,T13N,R03W			78.3	ROAD S26,T11N,R02W	
	40.1	IL RT 104			79.5	ROAD S25,T11N,R02W	
	40.1	C&IM RR			81.2	ROAD S36,T11N,R02W	
*	40.1	05575500 AT KINCAID	553.0	***	81.2	05574000 NR NOKOMIS	11.0
	41.9	ROAD S13,T13N,R03W			82.3	ROAD S31,T11N,R01W	
	45.8	ROAD S25,T13N,R03W			82.6	ROAD S32,T11N,R01W	
*	46.0	BEAR CREEK	440.0		83.8	ROAD S29,T11N,R01W	
	48.1	ROAD S31,T13N,R02W			84.9	ROAD S28,T11N,R01W	
	50.9	ROAD S06,T12N,R02W			85.6	NYC RR	
	51.1	IL RT 48					

	85.6	IL RT 16			86.8	TOPOGRAPHIC DIVIDE	

IKC HORSE CREEK (MOUTH AT S FK SANGAMON RIVER MILE 7.4) SANGAMON

*	0.0	AT MOUTH NR ROCHESTER	132.0		22.2	ROAD S17 T13N R04W	
	3.5	ROAD S30,T15N,R04W		*	22.5	WEST BRANCH	29.8
	3.5	05575900 NR ROCHESTER	131.0		22.8	ROAD S20,T13N,R04W	
	6.1	ROAD S06,T14N,R04W			23.0	ROAD S20,T13N,R04W	
	6.1	05575850 AT SPRINGFIELD	129.0		24.7	ROAD S29,T13N,R04W	
*	6.6	BRUSH CREEK	78.4		26.0	SANGAMON-MONTGOMERY CO	25.5
	9.9	ROAD S08,T14N,R04W			27.4	ROAD S05,T12N,R04W	
	11.8	ROAD S17,T14N,R04W			27.5	ROAD S08,T12N,R04W	
	13.2	ROAD S19,T14N,R04W			28.6	ROAD S07,T12N,R04W	
	17.7	ROAD S31,T14N,R04W			29.7	ROAD S18,T12N,R04W	
	19.2	ROAD S05,T13N,R04W			31.0	ROAD S19,T12N,R04W	
	20.2	IL RT 104	60.6		31.1	ROAD S30,T12N,R04W	
	20.3	C&IM RR			31.7	ROAD S25,T12N,R05W	
*	20.3	HENKLE BRANCH	53.4		32.4	ROAD S31,T12N,R04W	
	20.4	ROAD S08,T13N,R04W			34.1	ROAD S06,T11N,R04W	
	21.0	ROAD S17,T13N,R04W			35.5	ROAD S05,T11N,R04W	
	21.0	05575800 AT PAWNEE	52.2		36.0	TOPOGRAPHIC DIVIDE	
	21.8	ROAD S18,T13N,R04W					

IKCF BRUSH CREEK (MOUTH AT HORSE CREEK MILE 6.6) SANGAMON

*	0.0	AT MOUTH	49.0		11.7	ROAD S16,T13N,R05W	
	.3	ROAD S06,T14N;R04W			11.9	IC RR	
	2.1	ROAD S07,T14N,R04W			12.4	ROAD S16,T13N,R05W	
	3.0	ROAD S18,T14N,R04W			13.7	ROAD S20,T13N,R05W	
	3.7	ROAD S13,T14N,R05W		*	15.0	ROAD S29,T13N,R05W	19.7
	4.3	ROAD S24,T14N,R05W			15.7	ROAD S30,T13N,R05W	
	5.7	ROAD S25,T14N,R05W			16.7	ROAD S31,T13N,R05W	
	6.1	ROAD S25,T14N,R05W			17.9	SANGAMON-MACOUPIN CO LN	
	6.5	ROAD S35,T14N,R05W			18.2	ROAD S02,T12N,R06W	
	7.7	ROAD S35 T14N R05W			18.9	ROAD S02,T12N,R06W	
	9.1	ROAD S03,T13N,R05W			19.6	ROAD S11,T12N,R06W	
*	9.1	05575830 NR DIVERNON	32.4		21.0	ROAD S11,T12N,R06W	
	9.6	IL RT 104			22.1	ROAD S14,T12N,R06W	
	9.6	C&IM RR			23.9	ROAD S27,T12N,R06W	
	10.9	US HWY 66			24.1	TOPOGRAPHIC DIVIDE	

IKCQ WEST BRANCH (MOUTH AT HORSE CREEK MILE 22.5) SANGAMON

*	0.0	AT MOUTH	21.0		8.2	ROAD S09,T12N,R05W	
	.3	ROAD S20,T13N,R04W			8.9	ROAD S16,T12N,R05W	
	1.6	ROAD S30,T13N,R04W			9.5	ICRR	
	2.9	ROAD S25,T13N,R05W			10.1	ROAD S16,T12N,R05W	
	3.4	ROAD S26,T13N,R04W			11.3	ROAD S20,T12N,R05W	
	4.7	SANGAMON-MONTGOMERY CO			11.7	ROAD S20,T12N,R05W	
	7.7	US HWY 66			12.8	TOPOGRAPHIC DIVIDE	

IKH CLEAR CREEK (MOUTH AT S FK SANGAMON RIVER MILE 23.8) SANGAMON

*	0.0	AT MOUTH	73.6	11.6	ROAD S 5,T12N,R 3W	
	.3	SANGAMON-CHRISTIAN CO		11.9	ROAD S 5,T12N,R 3W	
	.5	CHRISTIAN-SANGAMON CO		12.5	ROAD S 8,T12N,R 3W	
	.7	SANGAMON-CHRISTIAN CO		12.8	ROAD S 8,T12N,R 3W	
***	1.0	SANGCHRIS DAM	72.9	14.7	ROAD S18,T12N,R 3W	
*	1.1	CLEAR CREEK (WEST)	38.0	14.5	ROAD S19,T12N,R 3W	
*	3.2	CLEAR CREEK TRIB	26.5	16.3	ROAD S25,T12N,R 4W	
	5.7	IL RT 104		16.3	ROAD S26,T12N,R 4W	
	5.8	C & IM RR		17.5	ROAD S26,T12N,R 4W	
	8.4	ROAD S21,T13N,R 3W		17.6	ROAD S27,T12N,R 4W	
	8.9	ROAD S28,T21N,R 3W		18.7	CHRISTIAN-MONTGOMERY CO LN RD	
*	9.0	ROAD S28 T21N R 3W	13.9	18.9	ROAD S33,T12N,R 4W	
	9.9	ROAD S33,T13N,R 3W		19.7	TOPOGRAPHIC DIVIDE	
	11.0	ROAD S 5,T12N,R 3W				

IKHC CLEAR CR (WEST) (MOUTH AT CLEAR CR MILE 1.1) CHRISTIAN

*	0.0	AT MOUTH	34.9	11.8	ROAD S34,T13N,R 4W	8.7
*	4.9	CLEAR CR (WEST) TRIB	20.3	12.9	ROAD S 3,T12N,R 4W	
	6.6	IL RT 104	18.6	14.0	ROAD S10,T12N,R 4W	
	6.6	C & IM RR		15.2	ROAD S15,T12N,R 4W	
	6.9	ROAD S10,T13N,R 4W		16.4	CHRISTIAN-MONTGOMERY CO LN RD	
	7.5	CHRISTIAN-SANGAMON CO LN RD		16.6	ROAD S21,T12N,R 4W	
*	8.4	ROAD S16,T13N,R 4W	12.6	17.8	ROAD S28,T12N,R 4W	
	9.6	ROAD S21,T13N,R 4W		18.9	ROAD S33,T12N,R 4W	
	10.7	ROAD S28,T13N,R 4W		19.2	TOPOGRAPHIC DIVIDE	
	10.7	ROAD S33,T13N,R 4W				

IKHCF CLEAR CR (WEST) TRIB (MOUTH AT CLEAR CR MILE 4.9) CHRISTIAN

*	0.0	AT MOUTH	10.1	3.2	ROAD S23,T13N,R 4W
	.5	IL RT 104		4.2	ROAD S26,T13N,R 4W
	.6	C & IM RR		5.2	ROAD S35,T13N,R 4W
	.6	ROAD S11,T13N,R 4W		5.7	ROAD S 2,T12N,R 4W
	1.4	ROAD S14,T13N,R 4W		6.4	ROAD S 1,T12N,R 4W
	1.7	ROAD S14,T13N,R 4W	8.0	7.0	ROAD S12,T12N,R 4W
	2.0	ROAD S14,T13N,R 4W		7.4	ROAD S11,T12N,R 4W
	2.2	ROAD S14,T13N,R 4W			

IKHE CLEAR CR TRIB (MOUTH AT CLEAR CR MILE 2.9) CHRISTIAN

*	0.0	AT MOUTH	9.8	6.0	ROAD S19,T13N,R 4W
	3.0	IL RT 104		6.5	ROAD S30,T13N,R 4W
	3.0	C & IM RR		7.5	ROAD S25,T13N,R 4W
	3.0	ROAD S18,T13N,R 4W	6.0	8.8	ROAD S36,T13N,R 4W
	4.3	ROAD S13,T13N,R 4W		9.4	TOPOGRAPHIC DIVIDE
	4.7	ROAD S13 T13N R 4W			

IKK S FK SANGAMON TRIB(MOUTH AT S FK SANGAMON RIVER MILE 37.1) CHRISTIAN

*	0.0	AT MOUTH	37.4		7.5	ROAD S27,T14N,R02W	
	.9	ROAD S02,T13N,R03W			8.0	ROAD S34,T14N,R02W	
	1.8	ROAD S35,T14N,R03W			9.4	ROAD S35,T14N,R02W	
	2.8	ROAD S36,T14N,R03W			9.7	ROAD S36,T14N,R02W	
	3.4	B&O RR			11.4	ROAD S01,T13N,R02W	
	3.4	IL RT 29			12.4	ROAD S06,T13N,R01W	
	3.7	ROAD S31,T14N,R02W			12.5	WABASH RR	
	4.4	ROAD S30,T14N,R02W			12.5	IL RT 48	
*	6.8	ROAD S27,T14N,R02W	11.0		13.1	TOPOGRAPHIC DIVIDE	

IKN BEAR CREEK (MOUTH AT SOUTH FORK SANGAMON RIVER MILE 46.0) CHRISTIA

*	0.0	AT MOUTH	99.7	*	13.0	BEAR CREEK TRIBUTARY	20.0
	.7	ROAD S36,T13N,R03W			13.2	ROAD S09,T11N,R03W	
	3.3	ROAD S02,T12N,R03W			13.6	ROAD S08,T11N,R03W	
	3.8	ROAD S11,T12N,R03W			15.0	ROAD S17,T11N,R03W	
	4.8	ROAD S15,T12N,R03W			15.2	ROAD S20,T11N,R03W	
*	5.9	PRAIRIE FORK	58.6		16.1	ROAD S19,T11N,R03W	
	6.2	ROAD S16,T12N,R03W			17.0	ROAD S30,T11N,R03W	
	8.7	ROAD S27,T12N,R03W			17.2	ROAD S25,T11N,R03W	
	9.6	ROAD S28,T12N,R03W			18.3	CHRISTIAN-MONTGOMERY CO	
	10.4	IL RT 48			19.6	ROAD S01,T10N,R04W	
	10.4	WABASH RR			20.5	ROAD S06,T11N,R03W	
	10.9	ROAD S33,T12N,R03W			21.1	ROAD S05,T10N,R03W	
	12.1	ROAD S04,T11N,R03W			22.0	TOPOGRAPHIC DIVIDE	

IKNH PRAIRIE FORK (MOUTH AT BEAR CREEK MILE 5.9) CHRISTIAN

*	0.0	AT MOUTH	29.8		7.1	ROAD S11,T11N,R04W	9.0
	.5	ROAD S16,T12N,R03W			8.1	ROAD S14,T11N,R04W	
	2.4	ROAD S29,T12N,R03W			9.3	ROAD S23,T11N,R04W	
	3.1	ROAD S29,T12N,R03W			9.4	ROAD S26,T11N,R04W	
	4.4	ROAD S31,T12N,R03W			10.4	CHRISTIAN-MONTGOMERY LN	
	5.0	ROAD S06,T11N,R03W			11.5	ROAD S28,T11N,R04W	
	5.7	ROAD S01,T11N,R04W			12.6	ROAD S21,T11N,R04W	
	6.4	ROAD S12,T11N,R04W			13.8	TOPOGRAPHIC DIVIDE	
*	6.6	ROAD S12,T11N,R04W	18.6				

IKNQ BEAR CREEK TRIBUTARY (MOUTH AT BEAR CREEK MILE 13.0) CHRISTIAN

*	0.0	AT MOUTH	15.8	3.7	ROAD S28,T11N,R03W	
	.4	ROAD S09,T11N,R03W		4.8	CHRISTIAN-MONTGOMERY CO	
	1.5	ROAD S16,T11N,R03W		6.3	ROAD S04,T10N,R03W	
	2.6	ROAD S21,T11N,R03W		7.0	TOPOGRAPHIC DIVIDE	

IKR FLAT BRANCH (MOUTH @ S FK SANGAMON RIVER MILE 57.3) CHRISTIAN

*	0.0	AT MOUTH NR TAYLORVILLE	278.0	20.8	CHRISTIAN-SHELBY CO LN	
	0.0	B&O RR		21.5	ROAD S06,T13N,R02E	
	1.6	IL RT 29		* 23.8	SORGHUM BRANCH	87.3
***	1.6	05574500,NR TAYLORVILLE	276.0	24.2	ROAD S08,T13N,R03E	
	3.6	ROAD S19,T13N,R01W		24.6	ROAD S17,T13N,R02E	
	7.2	ROAD S09,T13N,R01W		25.9	ROAD S16,T13N,R02E	
	10.7	ROAD S11,T13N,R01W		26.4	ROAD S15,T13N,R02E	
*	12.1	BRUSHY BRANCH	221.0	27.8	ROAD S22,T13N,R02E	
	12.1	ROAD S01,T13N,R01W		* 27.9	ROAD S23,T13N,R02E	68.7
	13.6	ROAD S06,T13N,R01E		29.2	ROAD S26,T13N,R02E	
*	14.7	OAK BRANCH	194.0	* 29.5	LAKE FORK	12.1
	14.7	ROAD S05,T13N,R01E		30.5	ROAD S35,T13N,R02E	
	16.4	ROAD S33,T14N,R01E		31.7	ROAD S02,T12N,R02E	
*	17.6	WILLOW BRANCH	140.0	32.7	ROAD S01,T12N,R02E	
	18.2	ROAD S35,T14N,R01E		33.3	ROAD S06,T12N,R03E	
*	18.3	BIG GEORGE BRANCH	113.0	34.3	ROAD S31,T13N,R03E	
	20.7	IC RR		35.2	ROAD S29,T13N,R03E	
	20.7	US HWY 51	109.0	36.8	TOPOGRAPHIC DIVIDE	

IKRI BRUSHY BRANCH (MOUTH AT FLAT BRANCH RIVER MILE 12.1) CHRISTIAN

*	0.0	AT MOUTH	30.4	5.5	ROAD S36,T13N,R01W	
	.4	ROAD S12,T13N,R01W		6.5	ROAD S31,T13N,R01E	
	1.3	ROAD S12,T13N,R01W		7.6	ROAD S06,T12N,R01E	
	3.0	ROAD S24,T13N,R01W		8.8	ROAD S07,T12N,R01E	
*	4.1	BRUSHY BR TRIB	12.3	9.8	ROAD S13,T12N,R01W	
	4.4	ROAD S25,T13N,R01W		10.9	ROAD S24,T12N,R01W	
	5.4	ROAD S36,T13N,R01W		11.9	TOPOGRAPHIC DIVIDE	

IKRK OAK BRANCH (MOUTH AT FLAT BRANCH RIVER MILE 14.7) CHRISTIAN

*	0.0	AT MOUTH	13.5	4.6	ROAD S22,T13N,R01E
	.5	ROAD S05,T13N,R01E		4.7	ROAD S27,T13N,R01E
	.9	ROAD S04,T13N,R01E		5.7	ROAD S28,T13N,R01E
	1.2	ROAD S09,T13N,R01E		6.9	ROAD S33,T13N,R01E
	2.0	ROAD S09,T13N,R01E		8.1	ROAD S04,T13N,R01E
	3.1	ROAD S16,T13N,R01E		8.2	ROAD S 2,T13N,R 1E
	3.8	ROAD S21,T13N,R01E		9.2	TOPOGRAPHIC DIVIDE

IKRM WILLOW BRANCH (MOUTH AT FLAT BRANCH RIVER MILE 17.6) CHRISTIAN

*	0.0	AT MOUTH	46.5	* 4.2	DRY BRANCH	11.0
	.7	ROAD S35,T14N,R01E		4.6	ROAD S13,T14N,R01E	
	1.4	ROAD S26,T14N,R01E		5.1	ROAD S12,T14N,R01E	
	1.6	ROAD S26,T14N,R01E		5.8	ROAD S07,T14N,R02E	
*	2.2	LONG GROVE CREEK	27.5	6.3	IC RR	
	3.2	CHRISTIAN-MACON CO LN		6.4	US HWY 51	

	7.1	ROAD S08,T14N,R02E		10.7	ROAD S34,T15N,R02E
	9.3	ROAD S04,T14N,R02E		12.0	TOPOGRAPHIC DIVIDE
	9.4	ROAD S33,T15N,R02E			

IKRMF LONG GROVE CREEK (MOUTH AT WILLOW BRANCH RIVER MILE 2.2) CHRISTIAN

*	0.0	AT MOUTH	16.9	4.4	ROAD S16,T14N,R02E
	.7	CHRISTIAN-SHELBY CO LN		5.7	ROAD S15,T14N,R02E
	1.3	IC RR		7.3	ROAD S14,T14N,R02E
	1.3	US HWY 51		9.2	ROAD S13,T14N,R02E
	1.3	ROAD S19,T14N,R02E		9.4	ROAD S18,T14N,R02E
	2.6	ROAD S20,T14N,R02E		10.1	TOPOGRAPHIC DIVIDE
	3.0	SHELBY-MACON CO LN RD			

IKRN BIG GEORGE BRANCH (MOUTH AT FLAT BRANCH RIVER MILE 18.3) CHRISTIA

*	0.0	AT MOUTH	27.1	8.5	ROAD S03,T12N,R01E
	.3	ROAD S34,T14N,R01E		9.2	ROAD S10,T12N,R01E
	1.6	ROAD S11,T13N,R01E		9.8	ROAD S09,T12N,R01E
	2.4	ROAD S11,T13N,R01E		10.9	ROAD S16,T12N,R01E
	3.5	ROAD S14,T13N,R01E		12.1	ROAD S21,T12N,R01E
	4.6	ROAD S23,T13N,R01E		12.4	ROAD S28,T12N,R01E
	5.9	ROAD S26,T13N,R01E	14.7	13.5	ROAD S29,T12N,R01E
	7.1	ROAD S35,T13N,R01E		14.3	TOPOGRAPHIC DIVIDE
	7.5	ROAD S02,T12N,R01E			

IKRV LAKE FORK (MOUTH AT FLAT BRANCH RIVER MILE 29.8) SHELBY

*	0.0	AT MOUTH	45.8	1.9	ROAD S03,T12N,R02E
	.1	ROAD S35,T13N,R02E		3.0	ROAD S04,T12N,R02E
	1.3	ROAD S34,T13N,R02E			

IKRV MAIN DRAINAGE DITCH (HEAD OF LAKE FORK, MILE 4.0)

	4.4	ROAD S08,T12N,R02E		11.8	ROAD S33,T12N,R01E
	4.7	ROAD S08,T12N,R02E		13.1	ROAD S05,T11N,R01E
	5.7	SHELBY-CHRISTIAN CO LN		13.4	IL RT 29
	6.6	ROAD S13,T12N,R01E		13.4	B&O RR
	8.0	US HWY 51		14.1	ROAD S07,T11N,R01E
	8.2	ROAD S23,T12N,R01E		14.9	ROAD S07,T11N,R01E
	9.3	ROAD S26,T12N,R01E		15.8	ROAD S13,T11N,R01W
	9.5	IC RR	26.7	17.4	NYC RR
*	9.8	UNNAMED TRIBUTARY	13.7	17.4	IL RT 16
	10.0	ROAD S27,T12N,R01E		18.2	TOPOGRAPHIC DIVIDE
	10.7	ROAD S34,T12N,R01E			

IKT LOCUST CREEK (MOUTH AT SOUTH FORK SANGAMON RIVER MILE 63.1) CHRISTIAN

*	0.0	AT MOUTH	31.3	.4	ROAD S13 T12N R01W

	1.3	ROAD S18,T12N,R01W			8.3	ROAD S03,T11N,R01W	
	1.6	ROAD S19,T12N,R01W			9.2	ROAD S10,T11N,R01W	
*	1.7	COTTONWOOD CREEK	21.7		9.7	ROAD S10,T11N,R01W	
	2.8	ROAD S20,T12N,R01W			10.5	ROAD S15,T11N,R01W	
	4.5	ROAD S28,T12N,R01W			10.7	ROAD S15,T11N,R01W	
	6.0	ROAD S27,T12N,R01W			10.9	ROAD S15,T11N,R01W	
	7.2	ROAD S35,T12N,R01W			12.3	TOPOGRAPHIC DIVIDE	
	7.5	ROAD S02,T11N,R01W					

IKW COTTON CREEK (MOUTH AT SOUTH FORK SANGAMON RIVER MILE 71.2)CHRISTIA

*	0.0	AT MOUTH	10.7		4.6	ROAD S18,T11N,R01W	
	1.3	ROAD S15,T11N,R02W			5.6	ROAD S19,T11N,R01W	
	1.3	ROAD S15,T11N,R02W			7.0	ROAD S20,T11N,R01W	
	1.5	ROAD S15,T11N,R02W			8.0	ROAD S21,T11N,R01W	
	3.0	ROAD S14,T11N,R02W			9.1	ROAD S22,T11N,R01W	
	3.9	ROAD S13,T11N,R02W			10.6	TOPOGRAPHIC DIVIDE	
	4.2	ROAD S13,T11N,R02W					

IK5 CLEAR CREEK (MOUTH AT SANGAMON RIVER MILE 91.0) SANGAMON

*	0.0	AT MOUTH	55.8		6.9	ROAD S23,T16N,R03W	
	.5	ROAD S36,T16N,R04W			8.0	ROAD S24,T16N,R03W	
	1.5	ROAD S31,T16N,R03W			8.3	ROAD S19,T16N,R02W	
	2.1	ROAD S32,T16N,R03W			9.0	INTERSTATE 72	
	3.5	ROAD S28,T16N,R03W			9.7	ROAD S 7,T16N,R 2W	
*	3.6	GRIFFITH CREEK	37.0		9.9	ROAD S 7,T16N,R 2W	
*	3.9	NORTH FK CLEAR CR	24.0		10.2	ROAD S08,T16N,R02W	
	4.2	ROAD S28,T16N,R03W			10.3	NORFOLK & WESTERN RR	
	5.7	ROAD S22,T16N,R03W			12.9	TOPOGRAPHIC DIVIDE	
	6.6	IT RR					

IK5G GRIFFITH CREEK (MOUTH AT CLEAR CREEK MILE 3.6) SANGAMON

*	0.0	AT MOUTH	14.2		5.2	ROAD S30,T16N,R02W	
	1.1	ROAD S34,T16N,R03W			5.4	ROAD S30,T16N,R02W	
	2.6	ROAD S26,T16N,R03W			5.6	ROAD S19,T16N,R02W	
	3.8	ROAD S25,T16N,R03W			6.8	ROAD S20,T16N,R02W	
	4.0	ROAD S25,T16N,R03W			7.9	TOPOGRAPHIC DIVIDE	
	4.1	ROAD S25 T16N R03W					

IL BUCKHART CREEK (MOUTH AT SANGAMON RIVER MILE 93.5) SANGAMON

*	0.0	AT MOUTH	105.0		7.8	ROAD S23,T15N,R03W		
	2.2	B&O RR			8.1	ROAD S26,T15N,R03W		
	2.3	ROAD S17,T15N,R03W			10.7	ROAD S30,T15N,R02W		
	3.2	ROAD S17,T15N,R03W			11.9	ROAD S32,T15N,R02W		70.5
*	4.0	BUCKHART CR TRIBUTARY	86.3	*	12.1	BUCKHART&CR&TRIBUTARY		41.5
	5.0	SANGAMON-CHRISTIAN LINE			12.8	ROAD S32,T15N,R02W		
	5.3	ROAD S22,T15N,R03W			13.9	ROAD S05,T14N,R02W		
	6.5	ROAD S23,T15N,R03W						

	15.1	ROAD S04,T14N,R02W			21.8	ROAD S20,T14N,R01W	
	16.4	ROAD S10,T14N,R02W			22.8	ROAD S21,T14N,R01W	
	17.0	ROAD S15,T14N,R02W			23.4	WABASH RR	
	18.2	ROAD S14,T14N,R02W			23.9	ROAD S22,T14N,R01W	
	18.6	ROAD S13,T14N,R02W			25.0	ROAD S23,T14N,R01W	
	19.6	ROAD S24,T14N,R02W	22.1		25.7	TOPOGRAPHIC DIVIDE	
	20.6	ROAD S19,T14N,R01W					

IM MOSQUITO CREEK (MOUTH AT SANGAMON RIVER MILE 107.7) CHRISTIAN

*	0.0	AT MOUTH	77.1		13.4	ROAD S29,T15N,R01E	
	2.1	ROAD S31,T16N,R01W			13.7	WABASH RR	13.7
	3.1	ROAD S31,T16N,R01W			13.7	IL RT 48	
	4.6	ROAD S04,T15N,R01W			14.0	ROAD S28,T15N,R01E	
	6.3	ROAD S10,T15N,R01W			14.1	ROAD S28,T15N,R01E	
	6.9	B&O RR			14.6	ROAD S21,T15N,R01E	
	7.7	ROAD S15,T15N,R01W			15.2	ROAD S27,T15N,R01E	
	9.2	ROAD S14,T15N,R01W			15.8	ROAD S27,T15N,R01E	
	10.3	CHRISTIAN-MACON CO LN R			17.3	ROAD S23,T15N,R01E	
	10.5	ROAD S18,T15N,R01E	45.6		17.7	ROAD S24,T15N,R01E	
	12.0	ROAD S19,T15N,R01E			19.4	ROAD S13,T15N,R01E	
*	12.4	SPRING CREEK	25.3		20.0	ROAD S18,T15N,R02E	
	13.1	ROAD S20,T15N,R01E			21.7	TOPOGRAPHIC DIVIDE	

IM2 LONG POINT SLOUGH (MOUTH AT SANGAMON RIVER MILE 108.9) SANGAMON

*	0.0	AT MOUTH	64.4		3.9	US HWY 36	
	1.1	ROAD S19,T16N,R02W			4.1	SANGAMON-MACON CO LINE	
	2.3	LEVEE S17,T16N,R01W			4.6	IT RR	
*	2.4	BORDEN CHEM TRIBUTARY	52.8	*	5.0	LONG POINT SLOUGH TRIB	30.2
	3.2	ROAD S17,T16N,R01W					

IM2 WILLOW BRANCH (HEAD OF LONG POINT SLOUGH, MILE 5.2)

	5.2	ROAD S09,T16N,R01W			11.8	ROAD S32,T17N,R01E	
	5.5	ROAD S04,T16N,R01W			12.6	ROAD S33,T17N,R01E	
*	6.4	WILLOW BRANCH TRIBUTARY	14.7		13.1	ROAD S34,T17N,R01E	
	7.1	ROAD S03,T16N,R01W			14.2	ROAD S34,T17N,R01E	
	8.4	ROAD S35,T17N,R01W			15.4	ROAD S35,T17N,R01E	
	9.5	ROAD S36,T17N,R01W			16.5	ROAD S26,T17N,R01E	
	10.6	ROAD S30,T17N,R01E			17.5	TOPOGRAPHIC DIVIDE	
	10.7	ROAD S29,T17N,R01E					

IM2H LONG PT SLOUGH TRIB (MOUTH AT LONG PT SLOUGH MILE 5.0) MACON

*	0.0	AT MOUTH	15.9		4.7	ROAD S30,T16N,R01W	
	.1	ROAD S09,T16N,R01W			5.1	ROAD S19,T16N,R02W	
	2.5	MACON-SANGAMON CO LN RD			6.0	TOPOGRAPHIC DIVIDE	
	3.6	ROAD S29,T16N,R01W					

16 STEVENS CREEK (MOUTH AT SANGAMON RIVER MILE 127.3) MACON

*	0.0	AT MOUTH	87.0	12.0	ROAD S15,T17N,R02E	
	1.0	05573620 AT DECATUR	86.7	* 13.3	AT FORSYTH AT OCEANA RD	31.0
	1.8	US HWY 36		14.7	ROAD S09,T17N,R02E	
	1.8	N&WRR		14.8	ROAD S04,T17N,R02E	
	3.3	ROAD S08,T16N,R02E		16.2	ROAD S03,T17N,R02E	
*	4.8	SPRING CREEK	50.1	17.7	ROAD S34,T18N,R02E	
	4.8	ROAD S04,T16N,R02E		18.0	US HWY 51	
	5.5	IC RR		18.2	IT RR	
	5.6	IL RT 121		* 18.3	IC RR	17.8
	7.2	AT MOUND ROAD	47.6	19.3	ROAD S26,T18N,R02E	
	8.2	MACARTHUR RD		19.5	ROAD S25,T18N,R02E	
	10.8	ROAD S22,T17N,R02E		21.0	ROAD S24,T18N,R02E	
	10.8	05573595 NR DECATUR	41.9	23.3	TOPOGRAPHIC DIVIDE	

16E SPRING CREEK (MOUTH AT STEVENS CREEK MILE 4.8) MACON

*	0.0	AT MOUTH	26.1	4.0	ROAD S26,T17N,R02E	
	0.0	ROAD S04,T16N,R02E		4.7	MOUND RD	
	1.1	ROAD S04,T16N,R02W		* 5.2	MOUND RD	18.4
	1.1	IC RR		7.0	ROAD S24,T17N,R02E	
	1.2	IL RT 48		* 7.8	SPRING CR TR	6.3
	1.2	05573610 AT DECATUR	25.5	8.2	ROAD S13,T17N,R03E	
	2.2	IL RT 121		9.6	ROAD S18,T17N,R03E	4.6
	2.8	US HWY 51		10.6	ROAD S07,T17N,R03E	
	3.1	CHRISTINE DRIVE		11.1	ROAD S08,T17N,R03E	
	3.2	IT RR		12.1	ROAD S05,T17N,R03E	
	3.5	IC RR		12.5	ROAD S04,T17N,R04E	
	3.8	MOUND RD	22.5	13.5	TOPOGRAPHIC DIVIDE	

169 SAND CREEK (MOUTH AT SANGAMON RIVER MILE 132.2) MACON

*	0.0	AT MOUTH	16.0	4.1	ROAD S06,T15N,R03E	
	0.0	ROAD S25,T16N,R02E		4.6	ROAD S12,T12N,R02E	
	.6	ROAD S26,T16N,R02E		6.9	ROAD S13,T12N,R02E	
	1.0	IC RR		7.1	ROAD S13,T15N,R02E	
	3.7	ROAD S01,T15N,R02E		9.1	ROAD S23,T15N,R 2E	
	3.9	ROAD S06 T12N R02E	7.7	9.4	TOPOGRAPHIC DIVIDE	

1P FINLEY CREEK (MOUTH AT SANGAMON RIVER MILE 132.3)MACON

*	0.0	AT MOUTH	84.5	10.9	ROAD S20,T15N,R03E	
*	1.9	LONG CREEK	30.7	12.3	ROAD S29,T15N,R03E	
	2.4	ROAD S32,T16N,R03E	26.5	12.9	ROAD S32,T15N,R03E	
	4.6	IC RR		13.5	ROAD S32,T15N,R03E	
	4.7	ROAD S04,T15N,R03E		15.1	ROAD S05,T14N,R03E	
	7.3	ROAD S08,T15N,R03E		16.1	ROAD S09,T14N,R03E	
	9.3	ROAD S17,T15N,R03E		17.1	TOPOGRAPHIC DIVIDE	

IPD LONG CREEK (MOUTH AT FINLEY CREEK MILE 1.9) MACON

*	0.0	AT MOUTH	51.4	4.3	B&O RR	
	.3	ROAD S32,T16N,R03E		5.5	ROAD S26,T16N,R03E	
	1.3	IL RT 121	47.0	5.8	ROAD S23,T16N,R03E	
	1.8	ROAD S33,T16N,R03E		7.0	ROAD S24,T16N,R03E	
*	1.9	BIG CREEK	18.6	7.5	ROAD S13,T16N,R03E	
	2.3	ROAD,S33,T16N,R03E	17.6	8.3	IL RT 105	4.3
	3.2	ROAD S34,T16N,R03E		8.7	ROAD S08,T16N,R04E	
	4.0	ROAD S26,T16N,R03E		10.5	ROAD S08,T16N,R04E	
*	4.3	US HWY 36	12.5	11.4	TOPOGRAPHIC DIVIDE	

IPDE BIG CREEK (MOUTH AT LONG CREEK MILE 1.9) MACON

*	0.0	AT MOUTH	28.1	6.8	PENNSYLVANIA RR	
	2.4	BIG CREEK TRIBUTARY		7.4	ROAD S13,T15N,R03E	
	3.0	ROAD S03,T15N,R03E		8.4	IL RT 121	
	3.9	ROAD S02,T15N,R03E		8.4	IC RR	
	3.9	BIG CREEK TRIB #2		8.5	ROAD S14,T15N,R03E	
*	6.2	NEAR HERVEY CITY	7.8	11.2	TOPOGRAPHIC DIVIDE	

IP9 SANGAMON RIVER TRIB (MOUTH AT SANGAMON RIVER MILE 145.0) MACON

.5	ROAD S19 T17N R04E	9.8	5.1	ROAD S22,T17N,R04E	
1.6	ROAD S20,T17N,R04E		5.9	ROAD S23,T17N,R04E	
1.7	ROAD S29,T17N,R04E		6.2	ROAD S23,T17N,R04E	
3.0	ROAD S21,T17N,R04E		7.5	TOPOGRAPHIC DIVIDE	
3.8	ROAD S21,T17N,R04E				

IQ FRIENDS CREEK (MOUTH AT SANGAMON RIVER MILE 146.7) MACON

*	0.0	AT MOUTH NR ARGENTA	129.0	9.2	ROAD S19,T18N,R04E		
	1.9	ROAD S08 T17N R04E	127.0	* 10.3	FRIENDS CREEK DITCH		18.6
	3.3	ROAD S06,T17N,R04E		12.4	ROAD S07 T18N R04E		
	5.2	ROAD S31,T18N,R04E		12.8	ROAD S07 T18N R04E		17.4
	5.7	ROAD S30,T18N,R04E		14.2	MACON-DEWITT CO LN RD		
	6.1	IL RT 47		15.8	ROAD S31,T19N,R04E		
***	6.1	05572450 AT ARGENTA	111.0	17.8	ROAD S20,T19N,R04E		
	6.1	IC RR		19.2	ROAD S19,T19N,R04E		
*	6.4	FRIENDS CREEK TRIB	68.8	19.6	ROAD S18,T19N,R04E		
	8.0	ROAD S24,T18N,R03E		22.2	TOPOGRAPHIC DIVIDE		

IQQ FRIENDS CR TRIB (MTH @ FRIENDS CREEK MILE 6.4) MACON

*	0.0	AT MOUTH	42.2	4.4	ROAD S14,T18N,R03E	
	.9	ROAD S24,T18N,R04E		5.7	ROAD S11,T18N,R03E	
*	.9	KICKAPOO CREEK	31.2	6.4	ROAD S10 T18N R03E	21.4
	2.5	ROAD S23,T18N,R03E		8.1	MACON-DEWITT CO LN RD	

8.4	ROAD S34,T19N,R03E		11.3	ROAD S22,T19N,R03E
9.3	ROAD S33,T19N,R03E		12.3	ROAD S23,T19N,R03E
10.1	ROAD S28,T19N,R03E		12.8	ROAD S14,T19N,R03E
11.2	ROAD S27,T19N,R03E		13.0	TOPOGRAPHIC DIVIDE

IQK FRIENDS CREEK DITCH (MOUTH AT FRIENDS CREEK MILE 10.3)

* 0.0	AT MOUTH	45.3	9.0	ROAD S23,T19N,R04E
.7	ROAD S07,T18N,R04E		10.2	ROAD S14,T19N,R04E
2.6	ROAD S08,T18N,R04E		10.7	IC RR
3.5	ROAD S05,T18N,R04E		11.3	ROAD S11 T19N R04E
4.6	MACON-DEWITT CO LN RD		11.6	IL RT 10
5.2	DEWITT-PIATT CO LN RD		13.1	ROAD S03,T19N,R04E
5.9	ROAD S34,T19N,R04E		14.6	ROAD S35,T20N,R04E
7.3	ROAD S27,T19N,R04E		16.7	TOPOGRAPHIC DIVIDE
8.8	ROAD S22,T19N,R04E			

IQ8 WOLF RUN DITCH (MOUTH AT SANGAMON R MILE 155.0)PIATT

* 0.0	AT MOUTH	13.0	4.0	ROAD S13,Y18N,R 4E
.9	ROAD S30,T18N,R 5E		4.8	ROAD S12,T18N,R 4E
2.5	ROAD S19,T18N,R 5E		5.3	ROAD S 7,T18N,R 5E
2.7	ROAD S24,T18N,R 4E		5.6	ROAD S 6,T18N,R 5E
2.8	ROAD S13,T18N,R 4E		6.1	ROAD S 1,T18N,R 4E
3.1	ROAD S18,T18N,R 5E		6.9	ROAD S 6,T18N,R 5E
3.3	ILLINOIS CENTRAL RR		8.4	ROAD S31,T19N,R 4E
3.3	IL RT 47		9.4	TOPOGRAPHIC DIVIDE
3.9	INTERSTATE 72			

IR WILLOW BRANCH (MOUTH AT SANGAMON RIVER MILE 155.6) PIATT

1.0	ROAD S29 T18N R05E	21.2	5.0	ROAD S06,T17N,R05E
1.2	ROAD S28,T18N,R05E		5.9	ROAD S07,T17N,R05E
1.4	ROAD S33,T18N,R05E		7.1	ROAD S12,T17N,R04E
2.8	ROAD S33,T18N,R05E		7.8	ROAD S14,T17N,R04E
3.4	ROAD S04,T17N,R05E		9.3	TOPOGRAPHIC DIVIDE
4.7	ROAD S05,T17N,R05E			

IR3 WILDCAT CREEK (MOUTH AT SANGAMON RIVER MILE 158.5) PIATT

0.0	AT MOUTH	8.6	3.2	ROAD S10,T18N,R05E
1.1	ROAD S16,T18N,R05E		3.5	ROAD S09,T18N,R05E
1.6	ROAD S15,T18N,R05E		4.6	ROAD S04,T18N,R05E
1.6	WILDCAT CR TRIB		5.9	ROAD S33,T19N,R05E
2.2	IC RR		7.1	TOPOGRAPHIC DIVIDE
2.2	IL RT 48			

IS CAMP CREEK (MOUTH AT SANGAMON RIVER MILE 163.8) PIATT

* 0.0	AT MOUTH	55.0		

	.1	WABASH RR			11.3	ROAD S19,T19N,R07E	
	.2	IL RT 105			11.6	ROAD S20,T19N,R07E	
	.9	IC RR			12.3	IC RR	
	4.4	ROAD S33,T19N,R06E		*	12.3	IL RT 47	18.1
	6.2	ROAD S34,T19N,R06E			13.4	INTERSTATE 72	
*	7.0	CAMP CREEK TRIBUTARY	32.6		13.6	ROAD S08,T19N,R07E	
	7.5	ROAD S35,T19N,R06E			14.1	ROAD S05,T19N,R07E	
	8.0	ROAD S36,T19N,R06E			18.2	TOPOGRAPHIC DIVIDE	
	9.9	PIATT-CHAMPAIGN CO LN					

IT GOOSE CREEK (MOUTH AT SANGAMON RIVER MILE 164.4) PIATT

*	0.0	AT MOUTH NR MONTICELLO	58.9		10.4	IL RT 10	
	.3	ROAD S35,T19N,R05E			11.6	ROAD S03,T19N,R05E	
	1.5	ROAD S35 T19N R05E			12.0	ROAD S03,T19N,R05E	
	3.8	ROAD S27,T19N,R05E			13.0	ROAD S34,T20N,R05E	
	5.8	ROAD S22,T19N,R05E		*	14.3	ROAD S26,T20N,R05E	5.7
*	5.8	05571500 NR DELAND	47.9		15.4	ROAD S25,T20N,R05E	
	6.7	ROAD S21,T19N,R05E			15.8	ROAD S24,T20N,R05E	
	7.9	ROAD S17,T19N,R05E			16.8	ROAD S19,T20N,R06E	
*	8.2	GOOSE CR TRIB	27.7		18.1	ROAD S17,T20N,R06E	
	9.0	ROAD S08,T19N,R05E			19.5	TOPOGRAPHIC DIVIDE	
	9.3	IC RR					

ITL GOOSE CREEK TRIB(MOUTH AT GOOSE CREEK MILE 8.2) PIATT

*	0.0	AT MOUTH	14.5	2.7	ROAD S06,T19N,R05E	
	.6	ROAD S08,T19N,R05E		3.6	PIATT-DEWITT CO LN	
	.9	IC RR		4.0	ROAD S31,T20N,R03E	
	1.2	ROAD S08,T19N,R05E		5.2	ROAD S30,T20N,R03E	
	1.4	IL RT 10		7.4	TOPOGRAPHIC DIVIDE	

IT4 MADDEN CREEK (MOUTH AT SANGAMON RIVER MILE 169.8) PIATT

*	0.0	AT MOUTH	27.3	10.4	PC RR	
	.2	IC RR		10.4	US HWY 150	
	.8	IL RT 10		10.7	ROAD S11,T20N,R06E	
	3.6	ROAD S04,T19N,R06E		11.1	ROAD S03,T20N,R06E	
	5.3	ROAD S33,T20N,R06E		11.7	WABASH RR	
	6.4	ROAD S28,T20N,R06E		12.1	ROAD S03,T20N,R06E	
*	6.5	ROAD S21,T20N,R06E	14.0	13.2	ROAD S34,T21N,R06E	
	8.4	ROAD S15,T20N,R06E		14.3	ROAD S27,T21N,R06E	
	8.6	ROAD S14,T20N,R06E		15.5	TOPOGRAPHIC DIVIDE	
	10.1	ROAD S11,T20N,R06E				

IV BIG DITCH (MOUTH AT SANGAMON RIVER MILE 193.1) CHAMPAIGN

*	0.0	AT MOUTH	52.8	3.8	ROAD S18,T21N,R08E	
	.3	ROAD S36,T21N,R07E		5.3	ROAD S17,T21N,R08E	
	1.4	ROAD S25,T21N,R07E		5.4	ROAD S16,T21N,R08E	
	1.7	ROAD S30,T21N,R08E				

	7.0	ROAD S09 T21N R08E		14.2	ROAD S28,T22N,R09E	4.9
	8.1	ROAD S03,T21N,R08E		15.4	ROAD S27,T22N,R09E	
*	9.1	ROAD S02,T21N,R08E	25.0	15.6	ROAD S22,T22N,R09E	
	10.5	US HWY 136		16.5	ROAD S23,T22N,R09E	
	10.6	ROAD S36 T22N R08E		16.8	ROAD S22,T22N,R09E	
	11.5	IC RR		17.9	ROAD S15,T22N,R09E	
	12.0	ROAD S31,T22N,R09E		18.2	TOPOGRAPHIC DIVIDE	
	12.3	ROAD S32,T22N,R09E				

IV4 SANGAMON RIVER TRIB (MOUTH AT SANGAMON RIVER MILE 195.5) CHAMPAIGN

*	0.0	AT MOUTH	14.2	3.8	ROAD S21,T21N,R07E	
	.7	ROAD S22,T21N,R07E		5.1	ROAD S20,T21N,R07E	
	1.0	ROAD S15,T21N,R07E		6.2	CHAMPAIGN-PIATT CO LN	
	1.3	IL RT 47		7.4	TOPOGRAPHIC DIVIDE	
	2.2	ROAD S22,T21N,R07E				

IV7 WILDCAT SLOUGH (MOUTH AT SANGAMON RIVER 197.7) CHAMPAIGN

*	0.0	AT MOUTH	17.9	6.0	ROAD S27,T22N,R08E	
	.2	ROAD S13,T21N,R07E		6.8	ROAD S26,T22N,R08E	
*	.5	ROAD S18,T21N,R08E		7.8	ROAD S23,T22N,R08E	9.2
	2.0	ROAD S06,T21N,R08E		8.5	ROAD S24,T22N,R08E	
	3.3	ROAD S05,T21N,R08E		9.9	ROAD S13,T22N,R08E	
	3.7	US HWY 136		11.1	ROAD S18,T22N,R09E	
	4.4	IC RR		11.8	ROAD S17,T22N,R09E	
	5.0	ROAD S33,T22N,R08E		12.5	ROAD S08,T22N,R09E	
	5.8	ROAD S27 T22N R08E		14.1	TOPOGRAPHIC DIVIDE	

IW5 HILLSBURY SLOUGH (MOUTH AT SANGAMON RIVER MILE 205.5)CHAMPAIGN

*	0.0	AT MOUTH	19.4	4.4	ROAD S11,T22N,R08E	
	.9	ROAD S21,T22N,R08E		5.5	ROAD S12,T22N,R08E	
	1.9	ROAD S16,T22N,R08E		5.9	ROAD S07,T22N,R09E	
	2.1	ROAD S09,T22N,R08E		7.3	ROAD S06,T22N,R09E	
	3.2	ROAD S10 T22N R08E	5.8	8.6	TOPOGRAPHIC DIVIDE	

IW7 DICKERSON SLOUGH (MOUTH AT SANGAMON RIVER MILE 208.0)CHAMPAIGN

*	0.0	AT MOUTH	30.5	8.8	ROAD S13,T23N,R08E	
	.8	ROAD S17,T22N,R08E		9.0	IL RT 9	
	1.7	ROAD S07,T22N,R08E		9.6	C&SL RR	
	2.5	ROAD S06,T22N,R08E		10.1	ROAD S07,T23N,R08E	
	3.6	CHAMPAIGN-FORD CO LN		10.9	ROAD S06,T23N,R08E	
	4.3	ROAD S31,T23N,R08E		11.4	US HWY 54	
	5.5	ROAD S30,T23N,R08E		11.6	IC RR	
*	6.3	ROAD S25,T23N,R08E	10.7	12.6	ROAD S36,T24N,R08E	
	7.6	ROAD S24,T23N,R08E		14.5	TOPOGRAPHIC DIVIDE	

IX DRUMMER CREEK (MOUTH AT SANGAMON RIVER MILE 211.2)CHAMPAIGN

*	0.0	AT MOUTH	58.0		8.1	IL RT 47	
	.6	ROAD S07,T22N,R08E			8.2	IC RR	
	2.4	CHAMPAIGN-FORD CO LN		*	8.3	IL RT 47	
	3.4	ROAD S35,T23N,R07E			8.6	NYC&SL RR	
	3.7	IL RT 47	54.9		8.6	IL RT 9	
	4.1	ROAD S35,T23N,R07E			9.6	ROAD S03,T23N,R07E	
	5.0	ROAD S26,T23N,R07E		*	11.9	ROAD S34,T24N,R07E	11.6
	5.6	WABASH RR			13.7	ROAD S27,T24N,R07E	
	5.7	ROAD S27,T23N,R07E			15.0	IL RT 47	
*	5.9	DRUMMER CREEK TRIBUTARY	40.0		15.4	WABASH RR	
*	6.2	WEST BRANCH	23.4		15.8	ROAD S23,T24N,R07E	
	6.9	ROAD S22,T23N,R07E			18.1	TOPOGRAPHIC DIVIDE	
*	8.0	US HWY 54	19.9				

IXJ WEST BRANCH DRUMMER CREEK (MOUTH AT DRUMMER CREEK MILE 6.2) FORD

*	0.0	AT MOUTH	16.5		2.6	IL RT 9	
	.6	ROAD S22,T23N,R07E			3.6	ROAD S04,T23N,R07E	
	.9	US HWY 54			4.8	ROAD S04,T23N,R07E	
	.9	IC RR			6.4	ROAD S32,T24N,R07E	
	.9	ROAD S15,T23N,R07E			7.5	FORD-MCLEAN CO LN RD	
	1.4	ROAD S16,T23N,R07E		*	7.6	ROAD S36,T24N,R06E	
	1.9	ROAD S15,T23N,R07E			9.2	IL RT 9	
	2.0	ROAD S10,T23N,R07E			10.0	TOPOGRAPHIC DIVIDE	
	2.5	NYC&SL RR					

IY LONE TREE CREEK (MOUTH AT SANGAMON RIVER MILE 213.6)CHAMPAIGN

*	0.0	AT MOUTH	47.3		7.2	ROAD S25,T22N,R06E	
	.5	ROAD S11,T22N,R07E			8.0	ICRR	
	.8	ROAD S14,T22N,R07E			8.9	WABASH RR	
	2.1	ROAD S15,T22N,R07E		*	9.0	MCLEAN-CHAMPAIGN CO LN	9.6
	3.4	ROAD S16,T22N,R07E			9.2	US HWY 136	
	3.9	WABASH RR			10.3	ROAD S06,T21N,R07E	
*	4.7	LONE TREE CREEK TRIB	25.2		11.6	ROAD S07,T21N,R07E	
	6.0	ROAD S19 T22N R07E	23.1		13.1	CHAMPAIGN-PIATT CO LN	
	6.5	CHAMPAIGN-MCLEAN CO LN			14.1	TOPOGRAPHIC DIVIDE	

IYI LONE TREE CREEK TRIB(MOUTH AT LONE TREE CREEK MILE 4.7) CHAMPAIGN

*	0.0	AT MOUTH	12.1		4.1	US HWY 54	
	0.8	CHAMPAIGN-MCLEAN CO LN			4.2	ICRR	
	1.9	ROAD S13,T22N,R06E			4.6	ROAD S22,T22N,R06E	
	2.7	ROAD S14,T22N,R06E			5.1	ROAD S16,T22N,R06E	
	3.3	ROAD S23,T22N,R06E			6.2	TOPOGRAPHIC DIVIDE	